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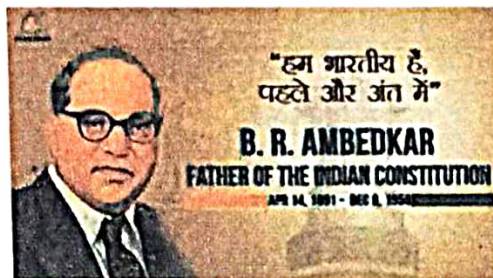
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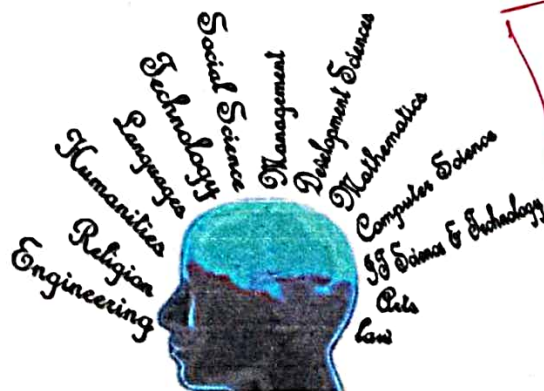
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Ambedkar, Human Rights and Empowerment of Dalit's Education

Dr. T. Sasikanth Reddy, Lecturer in English, S.C.N.R Govt. Degree College, Proddatur Town, YSR Dist., A.P. India, 516360

Abstract: As the unquestioned leader of the depressed classes and the principal architect of the Indian Constitution, the name of Dr. Bhimrao Ramjee Ambedkar will always be remembered in Indian history. Indian society is a gradation of castes forming an ascending scale of reverence and a descending scale of contempt, a system which gave no scope for the growth of the sentiment of equality and fraternity so essential for a democratic form of government. The caste system is not just a division of labour, but a hierarchical division of labourers which is not based on natural aptitude or spontaneity but on the caste of the parents. In 1920, Ambedkar started a Marathi weekly paper called 'Mooknayak' to champion the cause of the depressed classes. He founded the 'Bahiskrit Hitkarini Sabha' on July 20, 1924 for the upliftment of the depressed classes. The aim of the Sabha was to educate, unite and agitate. He was firmly convinced that without the right knowledge (education) no fruitful purpose is served. Also, however well educated without unity of action (unity) the goal becomes distant.

Key words: Education, philosophy, Empowerment

Introduction

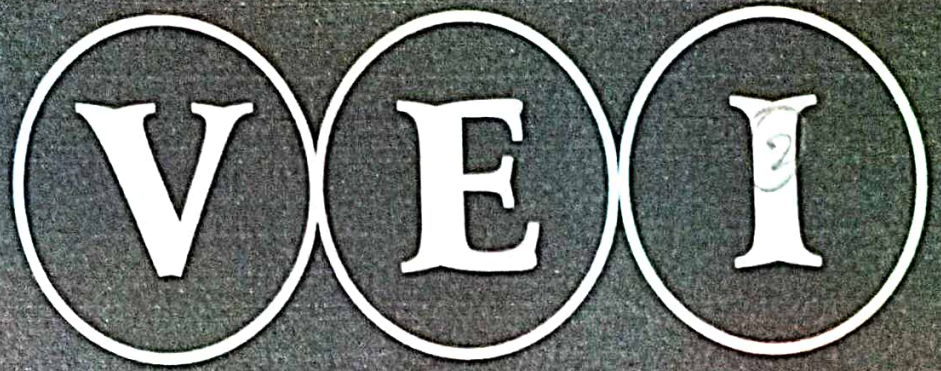
"Education is something which ought to be brought within the reach of every one. The object of primary education is to see that every child that enters the portals of a primary school does leave it only at a stage when it becomes literate and continues to be literate throughout the rest of his life." - B.R. Ambedkar

Dr. Bhimrao Ramji Ambedkar was born on 14th April 1891. He belonged to 20th century and his educational philosophy struck roots in the western pragmatic philosopher called John Dewey's theory of education. According to Dewey, education in its broad sense is the means of social continuity of life. This is the turning point of ideas of Dewey as the basis for his educational philosophy. He

established 'depressed classes educational society' to organize the school education of his community with this philosophy. Education according to Ambedkar was a blend of pragmatism of Dewey and 'dhamma' of Buddha. Education is not only a layer for their social mobility but also opens the doors for their modernization. Education as a instrument for Dalit Education.

The Government of Bombay constituted a committee in 1928 to enquire into the educational, economic and social conditions of the depressed classes to recommend measures for their uplift. Dr. Ambedkar was a prominent member of the committee. There are some points which reflect his views about education:

1. Give up the idea that parents give 'janma' to the child and not destiny



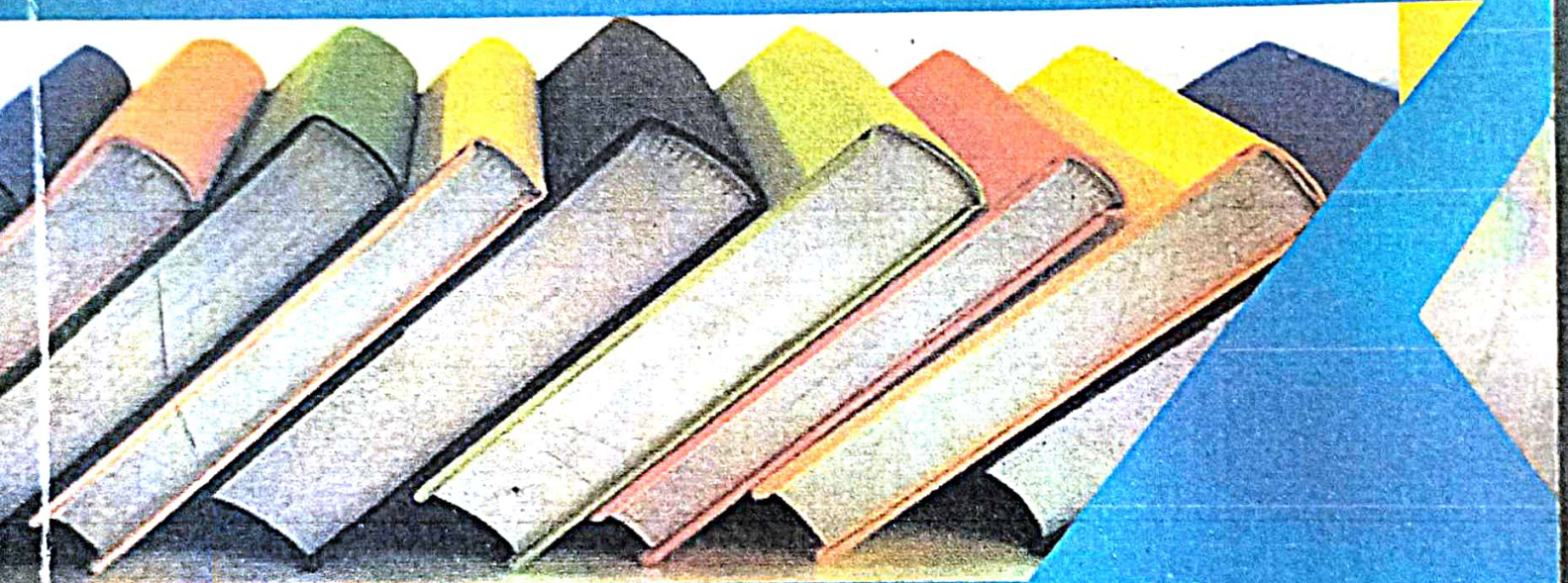
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DIGITAL INDIA- A PROGRAMME TOTRANFORM INDIA INTO A DIGITAL NATION

Dr. T. Sasikanth Reddy

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Abstract

It is a well-known fact that digital India is the outcome of many innovations and technological advancements. These transform the lives of people in many ways and will empower the society in a better manner. The 'Digital India' programme, an initiative of honourable Prime Minister Mr. Narendra Modi, will emerge new progressions in every sector and generates innovative endeavours for geNext. The motive behind the concept is to build participative, transparent and responsive system. The Digital India drive is a dream project of the Indian Government to remodel India into a knowledgeable economy and digitally empowered society, with good

governance for citizens by bringing synchronization and co-ordination in public accountability, digitally connecting and delivering the government programs and services to mobilize the capability of information technology across government departments. Today every nation wants to be fully digitalized and the programme strives to provide equal benefit to the user and service provider. Hence, an attempt has been made in this paper to understand Digital India – as a campaign where technologies and connectivity will come together to make an impact on all aspects of governance and improve the quality of life of citizens.

Introduction

The digital world that we live in today is that where every civilian has a bright prospect to transform the lives in many ways that were hard to envision just a couple of years ago. It is the outcome of several innovations and technology advances. Today, every nation wants to be fully digitalized that will empower society in a better manner. The 'Digital India' programme, an initiative of honourable Prime Minister Mr. Narendra Modi, will emerge new progressions in every sector and generates innovative endeavours for geNext. The motive behind the concept is to build participative, transparent and responsive system. All educational institutions and government services will soon be able to provide ways round the clock. Digital India will provide all services electronically and promote digital literacy. Digital Technologies which includes the concept of cloud computing and mobile applications have emerged as the catalysts for express economic growth and citizen empowerment. Companies all over the world desire to invest in Digital India- the 21st century India, as a growth opportunity. Hence, an attempt has been made in this paper to understand Digital India – as a campaign where technologies and connectivity will come together to make an impact on all aspects of governance and improve the quality of life of citizens.

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PROFESSIONAL ETHICS: THE CRISIS IN HIGHER EDUCATION

T. SASIKANTH REDDY

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Introduction

Education is considered as a powerful agency, which is instrumental in bringing about the desired changes in the socio-cultural life of the nation. Education is not knowledge alone, but also the capacity to utilise it. The quality of education depends upon the ability it imparts to make proper use of learning. Importance of education has been recognised for centuries by all societies in the world, but it has got special attention in the modern age. Education can rarely free itself from social and cultural norms and has to relate it to the ferments within the society. It has to deal with, transmit the cultural heritage and the tradition as a prime mover of change. The status of the teacher reflects the socio-cultural ethos of a society and code of ethics enables to set out the ideals and responsibilities of the profession as what and how teachers are supposed to perform. The human being is moving rapidly towards its formation of one world family and the people of one part of the world cannot remain indifferent to what is happening elsewhere. Earlier, we had more or less static society and a static outlook. Our goal was to make our children good citizens who would be physically and mentally fit to move in the world and serve our society and country as well. It is not that these needs have been out of place now. Nonetheless, new responsibilities have been vested and the world situation has changed to such an enormous extent that we are now required to revise the whole perspective. All these require a complete and total change in the outlook of a man, a transformation of character and a sincere, real respect for the values of universal brotherhood and unity of man irrespective of caste, colour, race, religion, region and class. Students must be taught to be a universal man who can cross the walls of social or national egocentric existence and look upon humanity as tied by the bonds of unity, justice and brotherhood. The current generation is not being educated in that manner, although we have been encountered several times about the goals of education, such as; individual, social, national and international development. Now, one has to proceed differently, thinking above than just self-development, but time is demanding for global thinking, global competition and global goals as well.

The quality of education depends upon the ability it imparts to make proper use of learning. The most essential domain for the quality of higher education institutions is the set of beliefs and moral standards about the rules of right conduct or practice that becomes professional ethics when carrying out professional practice of teachers in educational settings. It becomes incredibly important to discuss about 'ethics' prior to have an argument about professional ethics. Generally, 'Ethics' has been defined as the science of morals or moral principles. The term 'ethics', derived from the Greek word, ethos (character), refer to the philosophical science that deals with the rightness and wrongness of human actions. Ethics convey the rules of right conduct or practice,

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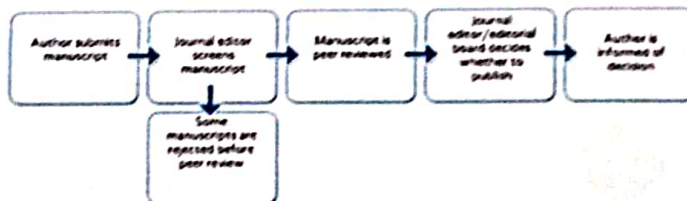
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GLOBALIZATION, HUMAN RIGHTS AND THE INDIAN STATE:

A CONSIDERATION

Dr. T. Sasikanth Reddy

(Lecturer in English, S.C.N.R Govt. Degree College,

Proddatur Town, YSR Dist, A.P. India, 516360)



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AN INSIGHT OF "NCERT POLICY FOR THE PREVENTION,

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Dr. Mohsin Ali Khan

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GLOBALIZATION, HUMAN RIGHTS AND THE INDIAN STATE: A CONSIDERATION

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ABSTRACT

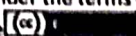


Today the human rights discourse is a larger project of democratization. Any nation-state is how much democratic is basically measured by the state of human rights enjoyed by the citizen of that particular nation-state. The process of globalization brought drastic changes in societies in terms of thinking, working and attitude and affected to the old patterns of living. While globalization has enhanced the ability of civil society to function across borders and promote human rights, other actors have gained the power to violate human rights in unforeseen ways. Globalization, on one hand, has brought opportunity to enhance the human rights and on other hand posed serious challenges of grass violation of human rights. The full paper deals with this issue that to what extent globalization is an opportunity for extension of human rights and same time how much this process is violating the human rights in world, in general, and in India particular.

Keywords: *Human Rights, Violation, Globalization.*

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sterilize the lyricism of our sentences" (144). This holds true for *Purple Hibiscus* where the protagonist feels tongue tied even more in Nsukka. So much so, that it takes her days to be able to answer properly the mundane questions put to her or express her thoughts after coming to Nsukka.

In conclusion, it can be said that *Purple Hibiscus* presents its readers with a heterotopic space in the form of Nsukka. It is possible to read Nsukka as heterotopic site which is also a site of resistance and counter-practices, since it has a deep influence on the protagonist and her brother and leads their lives in the direction which it takes later in the text. This heterotopia can be read as a heterotopia of deviance as well. It is a place which has far reaching effects on the protagonists and is instrumental in deciding the course of their lives.

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Christopher Fry's *The Dark Is Light Enough: A Winter Comedy* Evoking 'Redemption of Joy Through Death'

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Christopher Fry is a great playwright and poetic-drama revivalist of the 20th century. He has come on to the modern stage like a beam of spring sunshine after a hard winter. He has been an enigma to his critics. He was applauded as a 'word-smith'; a 'word-juggler'; a 'word-fancier'; a 'poetaster'; a 'relishing rhetorician'; and a 'varnisher of our language'. He has made great contribution to the poetic drama of the present century by inventing 'Comedies of Mood', 'The Theatre of Words', 'Seasonal Comedies'. He wrote religious plays, seasonal comedies, tragedy and history plays. Despite such varied production, his works display a remarkable unity of theme, '*exploration into God*', '*exploration into the mystery of life and death*'. Fry is a playwright with a philosophical bent of mind. He achieved harmony by blending the poetic and the realistic, to provide aesthetic delight and emotional gratification. He attached considerable importance to the practice of Christian qualities, on account of his intimate knowledge and association with Quakerism and the corresponding philosophy of life. Denis Donoghue has rightly observed that, "he saw a world in which we are all poised on the edge of eternity, a world which has deep shadows of mystery in which God is anything but a sleeping partner." (Donoghue, 181)

Fry's general themes are mystery and joy of existence, besides the regenerative power of life which can overcome existential alienation and despair. Fry reminds us that, full as life is of mystery and sadness, there exists comedy, and high-spirited characters who find enjoyment in the process of living. Fry's thinking about God is inventive and adventuresome. By emphasizing mystery Fry seems to be trying to say something more than mere good theatre can state. What Fry affirms is no paradise, however, it is the complex chaos and



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Persistence of Vision for Alphabet Recognition

Technology is growing by the day, and its advancement in the field of visual display has been phenomenal as well. This paper deals with one of several phenomena dealing with visual display called the Persistence of Vision Display (POV). Persistence of vision refers to the phenomenon of the human eye in which the afterimage exists for a brief time (10 ms). A POV display uses this same phenomenon by spinning a one dimensional array of LEDs through two dimensional space at such a speed that a two dimensional cylindrical display is visible. This movement is achieved by placing the LEDs on a motor shaft. The rotational speed is so maintained that the human eye perceives a two dimensional image. Rather than display a monotonous stream of letters we have established a link between an alphabet recognition system and the display system using a ZigBee. At the transmitter end, i.e., the alphabet recognition end, a set of four switches are placed which aid in the incrementing and decrementing of the letters of the alphabet, incrementing the cursor to the next position and sending the set string of data through ZigBee. The transmitting section uses an AT89S52 for recognizing the alphabet and transmitting it. The receiver section of ZigBee receives this string of data and displays it on the rotating LEDs. On the receiver end we use an AT89C2051 microcontroller which has an inbuilt LED driver to reduce the weight and space on the module.

Key Words : Persistence, Vision, ZigBee, Microcontroller, One and two dimensional image.

P. SIVA RAMI REDDY* & I.V. SUBBA REDDY**

(1) Introduction :

The core idea of the project revolves around the single phenomenon of persistence of vision. Persistence of vision is a phenomenon pertaining to the ability of the eye, where the afterimage seen continues to exist in the retina for a certain period of time (approx. 10ms). Many people have proposed methods using multiplexers, shifters, timers, microcontrollers, etc. to exhibit this phenomenon. This work enables a display of text of desired length at a low cost and high efficiency.

In the paper [1] a PIC microcontroller is used along with latches which are used for multiplexing the signal. The display is obtained on an LED array. This type of display has the option of showcasing text or a clock based on choice. The text to be showcased is the same as the text that has been preprogrammed in the microcontroller.

In paper [2] a rotating display is created using an AT89C52 microcontroller along with an RTC (real time clock). This display deals with the showcasing of time and date using the RTC. RTCs are usually used in mobiles or computers or in instruments where a high accuracy of time keeping is required. So, in this display the RTC is used to keep the time and day up-to-date. Every time the display is turned on the date and time at that particular moment is shown. This is achieved by a single column of 8 LEDs

working on the principle of persistence of vision.

The Propeller Clock [3] uses the concept of persistence of vision to display a live clock. The paper makes a case for creating a circular display instead of the conventional cylindrical display. An optocoupler is used to provide interrupts to the microcontroller. An AT89C2051 microcontroller is used to reduce weight of the POV display.

In paper [4], Persistence of vision control is achieved using an Arduino microcontroller. This microcontroller is faster, performs better and is more efficient. The whole kit works with an android operating system. Instead of using the conventional single color LEDs, an RGB LED is used here, which emits three colors. The display of the message is governed by any android device connected to the Arduino board.

The spinning LED display using radio frequency takes the concept of rotating displays using a single column of LEDs a step further. In paper [5], the users are operating a preprogrammed AT89S52 microcontroller, i.e., the message to be displayed is already dumped into the microcontroller. They also have the option of changing the message by simply reprogramming the microcontroller or establishing a communication link between the display and a PC using RF frequencies. This link enables the user to send a stream of data to be displayed from the PC.

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(2) Proposed Work :

Energy crisis is one of the most acute problems concerning the world today. Saving power should be of the highest priority on everyone's agenda. But the way the world is growing, it is encouraging the rise of new industries and entertainment and amusement zones. These industries and amusement parks require the installation of display units which consume a lot of power. This work shows how by using a single column of LEDs to make display units, we can reduce our increasing consumption of power. These units can display any message using transmitter boards.

(3) Components :

The following are the components used in this system:

(I) Microcontroller :

This system uses two microcontrollers:

(i) **AT89S52** : The heart of our transmitter section is the AT89S52. The 8 bit microcontroller has 8K of in-system programmable flash memory and 256 bytes of RAM. The microcontroller has 32 I/O lines. The microcontroller also houses a full duplex serial communication port and a set of three 16bit timers/counters. The microcontroller works on two modes, an idle mode and a power down mode.

(ii) **AT89C2051** : In our receiver section we are using the AT89C2051 microcontroller. This 8 bit microcontroller has 2K of in-system programmable flash memory and 128x8 bytes of RAM. The microcontroller has 15 I/O lines. It has a programmable serial communication port. The microcontroller has direct LED drive output lines.

(II) Liquid Crystal Display (LCD) :

The LCD connected to the microcontroller is a 16x2 display. With the LCD, if an 8bit data bus is used, then the LCD will require 11 data lines (3 control lines and 8 lines for the data bus). These three control lines are referred to as EN (Enable), RS (Register select), and RW (Read/Write). The Enable pin is used to tell the LCD that we are sending the data. If the Register Select pin is low it means that the data is treated as a command and if it is high then the data sent is text. If the Read/Write pin is low it means that the data is written and if it is high, the data is read, provided the register select pin is high.

(III) ZigBee :

ZigBee is a transceiver module which communicates using the RF frequencies. It transmits and receives data at 9600 baud rates from any CMOS/TTL source. It works in half duplex mode, i.e., the data can be sent only in one direction at a time. ZigBee is a low-power and low-cost communication module.

(IV) MAX 232 :

MAX 232 chips are used to convert the given voltages to RS 232 communication standards. MAX 232 is also referred to as a line driver. It works on the principle of charge pumping. This IC is the best at noise rejection and is also very reliable against discharges and short circuits.

(4) Implementation :

The block diagram 1 shows the transmitter section of

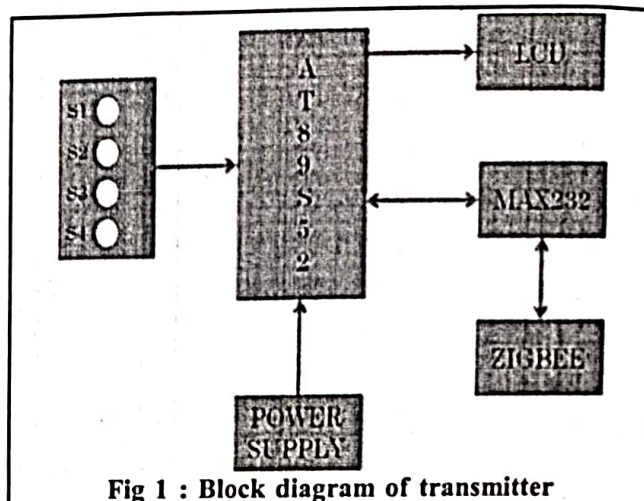


Fig 1 : Block diagram of transmitter

the module. The heart of this transmitter circuit is the AT89S52 microcontroller. In the transmitter section there are four switches S1, S2, S3, S4. S1 is used for incrementing the alphabet, S2 for decrementing the alphabet, S3 is used for incrementing the cursor to the next position, and S4 is used for transmitting the data serially using ZigBee. The desired string is typed using the switches (S1, S2, and S3). The LCD connected to the module will help the user see what has been typed. Once the desired string has been typed it can be transmitted by pressing S4. Max 232 now converts the string into RS 232 compatible standards and transmits the typed text to the receiver section with the help of ZigBee.

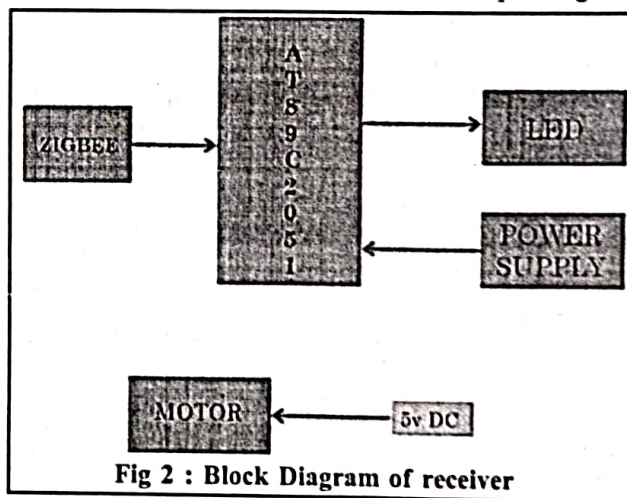


Fig 2 : Block Diagram of receiver

The above block diagram shows the receiver section of the module. The heart of the receiver circuit is the AT89C2051 microcontroller. This microcontroller is used because it has the capability of directly driving the LEDs, therefore LED driver chips need not be used. This reduces the weight of the module. The ZigBee on the receiver section receives the data and sends it to the microcontroller. Based on the data received, the microcontroller either switches the LED on or off for the specified period of time. This setup is mounted on a motor. When the motor is switched on, the module starts rotating at a calculated number of rotations per minute. The single column of LEDs rotating in a cylindrical column displays the entered string.

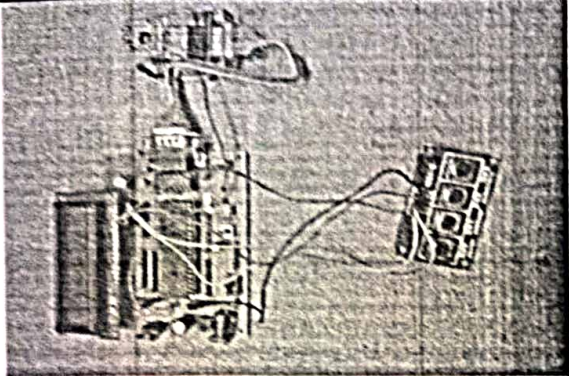


Fig 3 : Prototype development board (Transmitter)

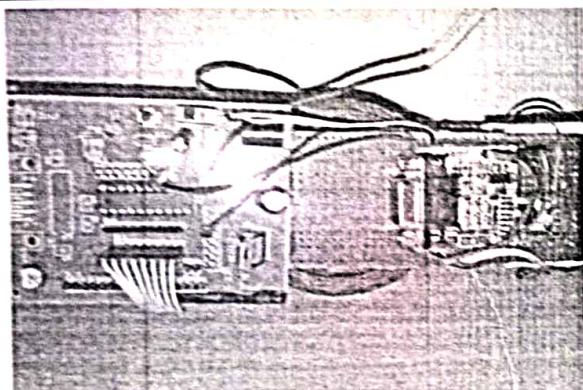


Fig 4: Prototype development board (Receiver) top view

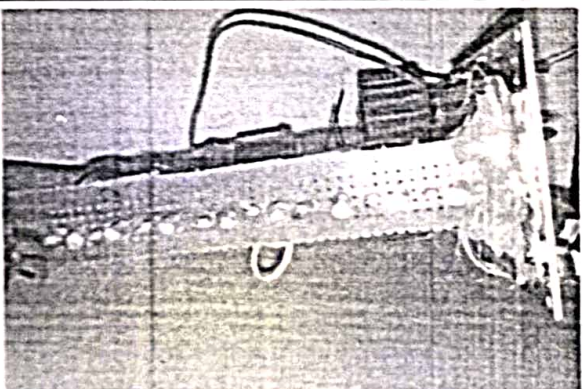


Fig 5 : Prototype development board (Receiver) Front view

(5) Software :

Initially, in the transmitter section, the LCD and serial ports are reset for initialization. A message "WELCOME" is displayed on the LCD screen. The microcontroller then redirects the LCD to a blank screen which displays a cursor and the letter 'A'. The LCD then awaits the next command. If S1 (switch 1) is pressed on the kit an increment of characters occurs until the desired character is obtained. Once the desired character is obtained, S3 (Switch 3) should be pressed for the cursor to move to the next position on the LCD. In the same manner S2 (switch 2) is used to decrement the alphabet count. Once the desired string of data is set on the LCD, S4 (switch 4) should be pressed which transmits the string of data using a ZigBee.

In the receiver section, initially the serial and timer registers are reset. The ports to which the LEDs are connected are also reset. By doing this the serial timer registers and the LED ports are initialized. The microcontroller now checks if there is any data being received at the ZigBee. If there is data being received, the microcontroller checks which character is being received. Based on the character received an appropriate time delay is created for the LED to be ON or OFF. If there is no data being received a preprogrammed message saying "HELLO" is displayed on the LED array.

(6) Applications : The advantage of the present work is that it consumes much less power than the display units in use in the market now. This work enables the user to display a desired string rather than a monotonous string. This work is also light to carry around. The user doesn't require a PC or a programmer to reframe the display message. All that the user needs is a transmitter board.

Conclusion : Energy efficiency is a growing demand in today's world and so is modernization with technology. This work combines both by creating a user friendly display at low cost with high efficiency and low power consumption.

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Abstract:

As the energy demand and the environmental problems increase, the natural energy sources have become very important as an alternative to the conventional energy sources. The renewable energy sector is fast gaining ground as a new growth area for numerous countries with the vast potential it presents environmentally and economically. Solar energy plays an important role as a primary source of renewable energy, especially for rural area. This project aims for the development of process to track the sun and attain maximum efficiency using C8051F20 Microcontroller for real time monitoring. The project is divided into two stages, which are hardware and software development. In hardware development, light dependent resistor (LDR) has been used for capturing maximum light source. Stepper motor has been used to move the solar panel at maximum light source location sensing by LDR. The performance of the system has been tested and compared with static solar panel. This project describes the design of a low cost, solar tracking system.

The main objective of this paper is to design and development of Single Axis Solar Tracking System that effectively used for Direction finding and also it can be used to improve the overall electricity generation & it provides the design for residential use. Solar tracker sense the direction of the sun and tilt the panels itself as needed for maximum exposure to the light.

Conclusion: In this paper, we have designed and developed a Single Axis Solar Tracking System. It plays an important role in finding the direction of the sun. In this project the sun falls on the LDRs unit determines the position of the solar panel towards the direction of the sun and follows across the sky. Then finally it effectively finds the direction of the sun.

Keywords: C8051F120 Microcontroller, LDRs, Serial Communication, Stepper Motor, Solar panel.

I. INTRODUCTION

The main impulsion is to design a high quality solar tracker. This paper is divided into two parts; hardware and software. It consists of three main constituents which are the inputs, controller and the output photo resistor or Light dependent resistor (LDR) or photocell which is a light-controlled variable resistor. LDRs or Light Dependent Resistors are very useful especially in light/dark sensor circuits. Normally the resistance of an LDR is very high, sometimes as high as $10,000,000\Omega$, but when they are illuminated with light then its resistance drops dramatically. LDR's have low cost and simple structure. The Stepper motor can turn either clockwise or anticlockwise direction depending upon the sequence of the logic signals. The sequence of the logic signals depends on the difference of light intensity of the LDR sensors. The principle of the solar tracking system is done by Light Dependant Resistor (LDR). LDR's are connected to C8051F120 that acts as the input for the system. The built-in Analog-to-Digital Converter will convert the analog value of LDR into digital. The inputs are from analog value of LDR, as the controller and the Stepper motor will be the output. LDRs are

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Doping-Concentration-Induced Ferromagnetism and photoluminescence emission in CdS: Mn nanoparticles

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ABSTRACT:

Pure and Mn doped CdS semiconductor nanoparticles (NP's) were successfully synthesized by chemical method. The synthesized nanoparticles were subjected to X-ray Diffraction (XRD), EDAX, FTIR, SEM, Photoluminescence and VSM Studies. The structure of CdS and Mn doped CdS from XRD studies is cubic. The excitation wavelength in photoluminescence studies is 340 nm, green and red emissions were observed. The Vibrating sample magnetometer (VSM) studies explores that higher concentration of Mn (7.5%) doped CdS nanoparticles exhibited ferromagnetism.

Key words: Mn doped CdS NP's, Chemical co-precipitation, XRD, FTIR, PL and VSM.

1. Introduction

Shape and size of semiconductor nanoparticles plays an increasingly significant role in achieving the unprecedented optical and electrical properties. Doping, intentional inclusion of impurities into the host semiconductor is also another widely used method to tune the properties of semiconductor nanoparticles. Especially, transition metal doping that can create ferromagnetic property in the host semiconductor has been pursued for several decades to envisage their spintronic application of semiconductors [1-3]. Among all semiconductors, II-VI semiconductors are very popular as host materials to generate room temperature ferromagnetism and attractive photoluminescence properties [4].

CdS is arguably the most important member of functional II-VI semiconductor family due to its wide band gap of 2.4 eV and high luminescence efficiency in the green spectral range. Magnetic elements such as Fe, Cr, Co, Mn, Ni, are used as dopants to impart room temperature ferromagnetism as well as to tune the bandgap and photoluminescence of CdS nanoparticles [5]. Mn has been the most extensively studied dopant in CdS semiconductor. The Optical and magnetic characteristic in CdS and Mn doped CdS may be due to sp-d exchange interactions. On the other hand, Mn doping could induce defects in CdS, which can give rich photoluminescence and magnetic properties. However, the role of these defects in creating the ferromagnetism is still unclear and is under debate [6-7]. Decreasing of impurities and increase of

ferromagnetism with Mn concentration in CdS nanowires was reported by Murali et al. [8]. Systematic investigations is to be required to understand the room temperature ferromagnetism in Mn doped CdS nanoparticles. Several synthesis methods including sol-gel method [9], sonochemical method [10], hydrothermal method [11-12], solvothermal method [13], chemical co-precipitation method [14], reverse micelles method, etc., have been adopted to prepare Mn doped CdS nanoparticles. The role of Mn dopant concentration on the structural, optical and magnetic properties of CdS nanoparticles is explored and results are noticed.

2. Experimental details:

2.1 Materials Used:

The chemicals utilized for this work are cadmium acetate dehydrate $[\text{Cd}(\text{CH}_3\text{COO})_2 \cdot 2\text{H}_2\text{O}]$ (99%, Sigma Aldrich), Manganese acetate tetra hydrate $[\text{Mn}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}]$ (98.5%, Fisher Scientific) and Sodium Sulphide $[\text{Na}_2\text{S}]$, 5ml of PEG used as capping agent which will control the agglomeration of particles and deionised water is used as dispersing solvent.

Synthesis of Pure and Mn doped CdS nanoparticles:

In this experiment all the reagents used were analytically pure and used without further purification. Pure and Mn doped CdS nanoparticles are prepared by chemical co-precipitation method using their acetate salts at room temperature. 0.2M aqueous solution of Cadmium acetate dehydrate $[\text{Cd}(\text{CH}_3\text{COO})_2 \cdot 2\text{H}_2\text{O}]$ and 0.2M aqueous solution of Manganese acetate tetra hydrate $[\text{Mn}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}]$ were mixed together with 50ml of deionised water by stirring for 20 minutes. 0.2M aqueous solution of sodium sulphide prepared separately and taken into a burette then this solution added drop by drop to the above solution and stirred for 20 minutes. After that 5ml of PEG was added and continuously stirred for 7 hours till fine precipitate of yellowish Mn doped CdS Nanoparticles were formed. Then the precipitate was filtered separately and washed several times in deionised water to remove the impurities and dried at 70°C in an oven. Then the dried precipitate were grinded for 30 minutes. After that the powder is kept in the furnace where the temperature was maintained at



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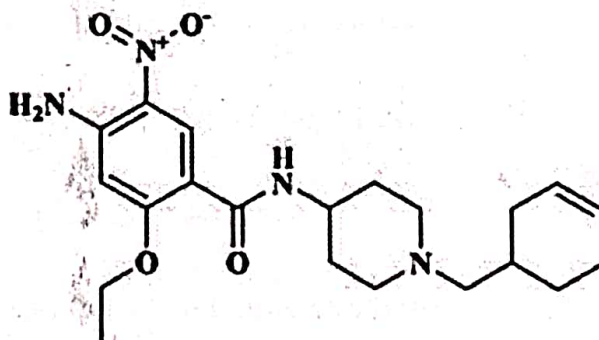
ABSTRACT

The voltammetric performance of cinitapride (CNTP) was investigated at carbon paste electrode using differential pulse voltammetry and cyclic voltammetry. The drug under study exhibited a single, well-defined reduction peak owing to the reduction of NO_2 . The electrode and reaction conditions which yielded maximum peak current were established using differential pulse voltammetry. A linear relationship was observed between the peak current and the concentration of CNTP over the range 2.35×10^{-6} M to 4.25×10^{-4} M. The limits of detection and limits of quantitation were found to be 6.55×10^{-9} M to 7.42×10^{-8} M respectively. The proposed method was successfully applied for the determination of CNTP in pharmaceutical formulations without interference from excipients

KEYWORDS: cinitapride; differential pulse voltammetry; cyclic voltammetry; Carbon paste electrodes.

I. INTRODUCTION

Cinitapride (CNTP) (Fig.1) is chemically, 4-Amino-N-[1-(3-cyclohexen-1-ylmethyl)-4-piperidinyl]-2-ethoxy-5-nitrobenzamide and a gastropkinetic drug¹. Regarding cinitapride, the determination of this drug can be accomplished using spectrophotometric methods². Previously few methods are reported such as spectrophotometric^{3,4} and HPLC⁵ methods for determination of cinitapride in pharmaceutical dosage forms. By keeping all this in view, it was thorough worthwhile to develop stability indicating HPLC method. Literature survey reveals some chromatographic and polarographic methods have been used for the determination of CNTP⁶⁻¹⁰. Roy et al. reported RP-HPLC Method for the Determination of Cinitapride in the Presence of its Degradation Products in Bulk Drug¹¹. Hitesh et al. Development and validation of HPTLC method for simultaneous estimation of cinitapride and omeprazole in combined dosage form¹².




Cinitapride (CNTP) (Figure.1)

Carbon paste electrodes (CPEs) belong to promising electrochemical or bioelectrochemical sensors of wide applicability. In 2008, it was exactly a half century since Ralph Norman Adams from the University of Kansas published a short one-page report¹³. The base of modified carbon pastes is usually a mixture of powdered graphite and nonelectrolytic binder¹⁴⁻¹⁶. This work aimed to study the reduction of CNTP at carbon paste

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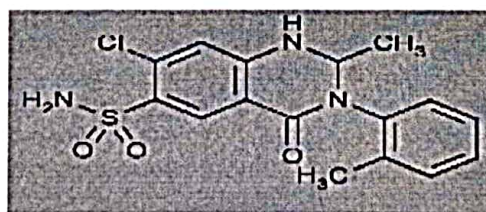
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ABSTRACT

A simple, precise, rapid sensitive and accurate spectro photometric methods have been developed for the estimation of Metalazone in pure form and its formulations and Spiked vegetables and water samples. This method is based on complex formation of Metalazone with 2,2-BP in the presence of Ferric chloride to form coloured product with maximum of 620 nm. The product obeyed Beer's law in the concentration range 0.4--2.4 ml (4-24 μgml^{-1}) with molar absorptivity of 0.4029×10^4 . Sandells sensitivity 0.00945. The assay of results was found to be good agreement with label claim.

KEYWORDS: Metalazone. UV. Validation.**INTRODUCTION**

Metolazone is chemically 7-chloro-2-methyl-3-(2-methylphenyl)-4-oxo-1, 2-dihydroquinazoline- 6-sulfonamide [3] (Structure-1). Metolazone is an oral diuretic drug, commonly classified with the thiazide diuretics. It is primarily used to treat congestive heart failure and high blood pressure. Metolazone indirectly decreases the amount of water reabsorbed into the bloodstream by the Kidney, so that blood volume decreases and urine volume increases. This lowers blood pressure and prevents excess fluid accumulation in heart failure. The empirical formula for Metolazone is $\text{C}_{16}\text{H}_{16}\text{ClN}_3\text{O}_3\text{S}$ and the molecular weight is 365.84 grams.

**Metolazone (Structure-1)**

Literature review reveals that methods have been reported for analysis of Metolazone. Ultra-Violet and Derivative spectrophotometric methods for estimation of Metolazone in pharmaceuticals ^{2&5-8}. A Validated UV spectrophotometric method of Metolazone in Bulk and its Tablet Dosage forms ^{3&9-11}. Validated RP-HPLC method for simultaneous quantitation of Losartan potassium and Metolazone in bulk drug and formulation ^{4&12-17}. Validated HPTLC Method for Simultaneous Estimation of Ramipril and Metolazone in Bulk Drug and formulation ^{1&18-21}. LC-MS-MS development and validation for simultaneous quantitation of Metolazone with other drug in human plasma.

There is however no reported HPLC and UV- Visible spectrophotometric method for the analysis of Metolazone in its technical grade and formulations. This chapter describes a validated HPLC and UV-Visible spectrophotometric methods for the quantitative determination of Metolazone Functional group used for color development of Metolazone was primary amine group. The results obtained in this method was based on reaction of Metolazone with complex formation with 2, 2- Bipyridine/ Ferric chloride.. An attempt has been made to develop and validate all methods to ensure their accuracy, precision, repeatability, reproducibility and other analytical method validation parameters as mentioned in the various guidelines.

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CHEMISTRY

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INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES & RESEARCH
TECHNOLOGYANALYSIS OF NITROFURATOIN IN BULK DRUG AND PHARMACEUTICAL
DOSAGE FORMS BY HPLC METHOD

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ABSTRACT

A simple, economic, selective, precise, and accurate High Performance liquid Chromatographic method for the analysis of Nitrofurantoin in bulk drug and pharmaceutical formulations was developed and validated in the present study. The mobile phase consists of a mixture of Acetonitrile and buffer 88:12. And adjust the pH to 5.0 ± 0.05 with sodium hydroxide solution. This was found to give a sharp peak of Nitrofurantoin at a retention time of 8.423 min. HPLC analysis of Nitrofurantoin was carried out at a wavelength of 254 nm with a flow rate of 1.6 mL/min. The linear regression analysis data for the calibration curve showed a good linear relationship with a regression coefficient of 0.999 in the concentration range of 50 to 150 $\mu\text{g mL}^{-1}$. The linear regression equation was $y = 53.4120x - 168.66$. The developed method was employed with a high degree of precision and accuracy for the analysis of Nitrofurantoin. The developed method was validated for accuracy, precision, robustness, detection and quantification limits as per the ICH guidelines. The wide linearity range, accuracy, sensitivity, short retention time and composition of the mobile phase indicated that this method is better for the quantification of Nitrofurantoin.

KEYWORDS: Nitrofurantoin. HPLC. Validation.

INTRODUCTION

Several materials have been tested toward this aim, including solid amalgam electrodes (SAE), carbon paste electrodes (CPE), nanotube carbon paste electrodes (NTCPE), glassy carbon electrodes (GCE), solid composite electrodes (SCE) and boron-doped diamond film electrodes (BDDFE). Several reviews illustrating the use of these materials in the electroanalytical field have been published in recent years [1], [2], [3], [4], [5], [6], [7], [8], [9], [10] and [11].

Among these materials, BDDFE has attracted the attention of electroanalytical researchers as a candidate for the electrochemical determination of pharmaceutical compounds, since BDDFE presents a stable background current, wide potential window for aqueous and non-aqueous electrolytes, high thermal conductivity, high hardness, high electrochemical stability, low organic molecule adsorption and high sensitivity for analytical purposes [5], [8], [9], [12], [13] and [14].

However, little attention has been given in the literature concerning the influence of different boron-doping levels on the electrochemical response of the pharmaceutical compounds. In addition, some reports have been published showing that nitrofurazone, which is in the group of nitrofurantoin antibacterial agents, has a good electrochemical response on the BDDFE [15] and [16]. This enables the application of this electrode for the electrochemical detection and quantification of compounds belonging to the nitrofurantoin group. Among them, nitrofurantoin [NFT; 1-((5-nitro-2-furfurylidene)-1-amino)hydantoin] is a drug synthesized from nitrofurantoin that is very useful in the treatment of urinary tract diseases. Depending on its concentration at the inflammation site, this drug may act as a bacteriostatic or bactericidal agent [17]. As pointed out by Hamman [17], this drug can act against various gram negative bacteria, as well as some gram-positive bacteria, including *Citrobacter*, *Corynebacterium*, *Enterobacter*, *Escherichiacoli*, *Klebsiella*, *Neisseria*, *Salmonella*, *Staphylococcus aureus* and *Enterococcus faecalis*. It is efficient against these bacteria in the concentration range of 1–32 $\mu\text{g mL}^{-1}$. However, this drug is partially metabolized, and 24 h after the application of a single oral dose, 30–

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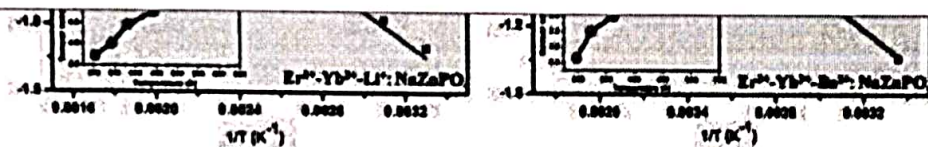
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Research article ☐ Abstract onlyOptical properties of Yb³⁺-doped NBSAZB glasses for IR lasers

B.C. Jamalaiah, K. Rama Gopal, M.V. Vijaya Kumar, G.V. Lokeswara Reddy

Pages 378-382

Article preview ☐

Abstract

Abstract

Different concentrations of Yb³⁺-doped Na₂O-B₂O₃-SiO₂-Al₂O₃-ZnO-BaO (NBSAZB) glasses were prepared by melt quenching technique. Glassy nature of the studied glasses was identified using X-ray diffraction measurements. The effect of concentration of Yb³⁺ ions on absorption and emission spectra were discussed. Stark splitting of the ²F_{7/2} ground and ²F_{5/2} upper energy levels was also discussed. Both Fuchtbauer-Ladenburg (F-L) method and Mc Cumber (MC) theory were applied to evaluate the emission cross-sections. For NBSAZBYb10 glass, the emission cross-sections are 4.86×10⁻²⁰ cm² (F-L method) and 3.88×10⁻²⁰ cm² (MC theory). The NBSAZBYb10 glass has potentiality as ~975 nm solid-state IR laser.

Research article ☐ Abstract only

Optical properties of Yb³⁺-doped NBSAZB glasses for IR lasersB.C. Jamalaiah^{a,*}, K. Rama Gopal^b, M.V. Vijaya Kumar^c, G.V. Lokeswara Reddy^d^a Department of Physics, RGM College of Engineering & Technology, Nandyal 518501, India^b Department of Physics, Sri Krishnadevaraya University, Anantapur 515003, India^c Department of Physics, Government Junior College (B), Kadapa 516001, India^d Department of Physics, SCNR Government Degree College, Proddatur 516360, India

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IR laser

ABSTRACT

Different concentrations of Yb³⁺-doped Na₂O-B₂O₃-SiO₂-Al₂O₃-ZnO-BaO (NBSAZB) glasses were prepared by melt quenching technique. Glassy nature of the studied glasses was identified using X-ray diffraction measurements. The effect of concentration of Yb³⁺ ions on absorption and emission spectra were discussed. Stark splitting of the ²F_{7/2} ground and ²F_{5/2} upper energy levels was also discussed. Both Fuchtbauer-Ladenburg (F-L) method and Mc Cumber (MC) theory were applied to evaluate the emission cross-sections. For NBSAZBYb10 glass, the emission cross-sections are 4.86 × 10⁻²⁰ cm² (F-L method) and 3.88 × 10⁻²⁰ cm² (MC theory). The NBSAZBYb10 glass has potentiality as ~975 nm solid-state IR laser.

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1. Introduction

Since past few decades, rare earth (RE) doped glassy materials are playing a vital role in the fabrication of infrared (IR) lasers [1–5]. The in-homogeneity of glass and location of dopant ion in a variety of chemical environments results broad emission bands for RE ions. It is well known that the emission cross-section and decay time of RE ions significantly influenced by the ligand environment [6]. In order to achieve broadband emission profile and efficient luminescent signal, the choice of suitable host glass for RE ions is very important. Boro silicate glasses are very important for optical materials owing to their high transparency and high thermal stability. Generally, in pure B₂O₃ glass most of the boron is involved in B₃O₆ boroxol ring [7]. The addition of modifier breaks these rings and forms BO₃ and BO₄ units [8–10]. Also, the incorporation of sodium oxide helps in forming BO₄ units and non-bridging oxygen [11].

Among trivalent RE ions, the Yb³⁺-doped crystals and glasses exhibit high luminescence efficiency with InGaAs laser as pump source. When compared to other RE ions, Yb³⁺ has only two manifolds in its energy level structure, the ²F_{7/2} ground state and the ²F_{5/2} excited state. Consequently for any host matrix containing Yb³⁺, the compositional dependence of spectroscopic and luminescence properties is not well established. The luminescence of Yb³⁺ should not be affected by the concentration quenching

and multi-phonon relaxation processes [12]. In case of Yb³⁺ glass lasers, the non-radiative decay rates reduce due to the lack of intermediate levels and the large separation between the excited state and the ground state energy levels. Thus, the Yb³⁺ ions are of interest for the next generation lasers. In the present work we report the structural and luminescent properties of Na₂O-B₂O₃-SiO₂-Al₂O₃-ZnO-BaO (NBSAZB) glasses containing different concentrations of Yb³⁺ ions. The emission mechanism of Yb³⁺ ions in the studied glasses is discussed. The importance of spontaneous transition probability rate and the emission cross-sections is explored in detail.

2. Experimental techniques

2.1. Materials and method of preparation

Different concentrations of Yb³⁺-doped NBSAZB glasses of composition, 25 Na₂O + 10 B₂O₃ + (50-x) SiO₂ + 5 Al₂O₃ + ZnO + 5 BaO + x Yb₂O₃, where x = 0, 0.1, 0.5, 1.0 and 2.0 mol% were prepared by melt quenching method. High purity Na₂CO₃ (99.9%), H₃BO₃ (99.9%), SiO₂ (99%), Al₂O₃ (99.9%), ZnO (99%), BaO (99%), Er₂O₃ (99.99%) and Yb₂O₃ (99.99%) powders from Sigma Aldrich were used as starting materials. 15 g batch composition of homogeneous mixtures were melted in alumina crucible at 1300 °C for 45 minutes. The melt mass was poured on a pre-heated brass mould at 400 °C and annealed at that temperature for 10 h to remove residual stresses. Based on the concentration of

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White light generation in Dy₂O₃ -doped NBSAZB glasses

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ABSTRACT

The NBSAZBDy glasses containing different concentrations ($0 \leq x \leq 2.0$ mol%) of Dy₂O₃ were prepared by conventional melt quenching method. The concentration effect of Dy₂O₃ on optical absorption, photoluminescence excitation, emission and luminescence decay was investigated. The Dy₂O₃ concentration was optimized as 1.0 mol% for proficient luminescence in NBSAZBDy glasses. The optical characterization was carried out using the Judd-Ofelt theory. For NBSAZBDy10 glass, the Judd-Ofelt intensity parameters were determined as $\Omega_2 = 6.15 \times 10^{-20}$, $\Omega_4 = 2.42 \times 10^{-20}$ and $\Omega_6 = 1.98 \times 10^{-20}$ cm² by least square fit method. These intensity parameters were used to evaluate the radiative parameters such as transition probability rates, branching ratios, radiative lifetimes and stimulated emission cross-sections. The chromaticity coordinates calculated from the emission spectra were located in the white region of CIE diagram. The NBSAZBDy10 glass has potential to generate white light under 378 nm excitation.

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1. Introduction

Trivalent rare earth (RE) ions doped glasses are of interest in the development of solid state lasers, optical amplifiers, solar cells and light emitting diodes (LEDs). At present, lot of importance has given for the generation of white light from various multi-component glasses containing RE ions and/or transition metal ions [1–5]. Among the trivalent RE ions, the Dy³⁺ has a capability to produce white light from any kind of host material like glass or phosphor either as single ion or co-doped with other suitable RE ions owing to its blue, yellow and feeble red emission corresponding to the ⁴F_{9/2} → ⁶H_{15/2}, ⁴F_{9/2} → ⁶H_{13/2} and ⁴F_{9/2} → ⁶H_{11/2} transitions, respectively [6,7]. Further, the Dy³⁺-doped glasses find wide applications as optical amplifiers and infrared lasers due to their 1.3 and 3.0 μm emission [8,9].

A suitable host glass is essential for RE ions for their efficient luminescence, broad emission profile and high quantum efficiency. Compared to our previous glass hosts [6,7], the present NBSAZB host glass possesses good structural and compositional properties leading enhanced optical properties. Additionally, the NBSAZB host glass has reasonably small OH[−] content of the order of 0.0067 cm^{−1}

and maximum phonon energy of 992 cm^{−1} [10].

The present work reports the structural and optical characterization of different concentrations of Dy₂O₃ -doped NBSAZBDy glasses for white light generation. The concentration of Dy₂O₃ was optimized for intense luminescence. The colour perception and luminescence decay analysis were explained. The reasons for the luminescence quenching, the decrease in lifetime with increase of Dy₂O₃ concentration and the non-exponential behaviour at higher Dy₂O₃ concentration was discussed in detail.

2. Experimental

2.1. Materials and method of preparation

Different concentrations of Dy₂O₃ -doped NBSAZBDy glasses of composition, 25 Na₂O + 10 B₂O₃ + (50-x) SiO₂ + 5 Al₂O₃ + 5 ZnO + 5 BaO + x Dy₂O₃ ($0 \leq x \leq 2.0$ mol%), were prepared by melt quenching method. High purity Na₂CO₃ (99.9%), H₃BO₃ (99.9%), SiO₂ (99%), Al₂O₃ (99.9%), ZnO (99%), BaO (99%), and Dy₂O₃ (99.99%) were used as starting materials. 10 g batch composition of homogeneous mixtures were melted in alumina crucible at 1300 °C for 45 min. The melt mass was poured on a pre-heated brass mould at 400 °C and annealed at that temperature for 10 h to remove thermal strains occurred during air-quenching process. According to Dy₂O₃ concentration ($x = 0, 0.1, 0.5, 1.0$ and 2.0 mol%), the prepared

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Autonomous Robot

*In today's world the field of automated technology has advanced to a very high extent. Robotics is already playing a very pivotal and cutting edge role in diverse sectors such as manufacturing, avionics, medicine, defense, automobile & entertainment to name a few. In this paper, we are dealing with an autonomous robot which has capabilities like speech recognition, color recognition, face recognition, motion tracking & obstacle avoiding while the whole robot is controlled through Bluetooth protocol. The goal of this project is to design a robot that communicates with a computer. We are using a PIC microcontroller which is the heart of the robot. The communication pins of the microcontroller are used to connect to the Bluetooth module which helps in establishing a link between the robot and the computer. A motor driver is also used to aid in the movement of the robot. An ultra-sonic distance sensor is used for obstacle avoidance. When a command is given to any servo, the controller sends out a digital signal to rotate the servo to the desired position. An mp3 trigger is used to achieve sound output of the mp3 files stored on the memory card. The robot can also be controlled through a mobile or a tablet. It has an auto navigation system and moves on every possible rough surface. **Key Words** : Autonomous, Bluetooth protocol, PIC microcontroller, ultra sonic sensor, motor drive, mp3 trigger.*

P.SIVA RAMI REDDY*, VISHAL KUMAR AGARWAL, BIAMIDI RAMA** & I.V. SUBBA REDDY*****

Introduction :

Science changes its face every day in order to reach the heights of human possibilities. Robotics is one of such realm of the extravagant innovations created by human mind. In this unpredictable and naive world, robotics can be used for security purposes. This paper describes about the use of robotics for security purposes such as diffusing bombs. The robot is completely autonomous with several features such as color recognition, face recognition, voice recognition, obstacle avoiding, QR code, recognition, GPS navigation, etc.

In the paper [1], the robot designed is basically a mobile device which carries out different services and can be used in two different ways. The robot in this paper can either be controlled manually i.e., through a device which gives commands to it, or automatically which means the robot carries out all the services automatically.

In the paper [2], the robot is designed to operated manually or autonomously both at a time and the robot performs the tasks for the well-being and this type of robot is either mobile or manipulative or both.

In the paper [3], all the components of the robot are integrated on a mobile robot platform and the robot is used to interact with the humans in a kitchen scenario.

Proposed Work :

Nowadays, the field of technology especially the automated technology is advancing day by day. People prefer things such as machines, and other objects to be automated such that it decreases the amount of work to be done and perhaps makes it much easier in this automation process. The tasks performed by the automated machines are much faster as compared to that of humans. We have created an autonomous robot which interacts with the outside world and follows the instructions given by us such as lifting a water bottle or moving to a specific distance and talk back ability, the robot also recognizes the face and even differentiates between colors with help of a wireless camera attached to it. This robot is very helpful in today's world as it has the ability to ride on any rough surface enabling it to enter into remote areas were a lot of people cannot enter or can be used to diffuse the bombs while standing at a particular distance without causing any harm to us.

Instruments :

The following components are used in this system :

(I) **Microcontroller** : The heart of the robot is PIC18LF4685 which has a high computational performance at an economical price, high-endurance and Enhanced Flash program memory. PIC18LF4685 is a microcontroller which

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has a logical choice for many high-performances, power sensitive applications.

(II) Bluetooth Module : Bluetooth is a wireless technology in which the data can be transferred over short distances through radio transmissions. This wireless technology is used mainly in mobile's which has a greater security level as compared to any other wireless technology.

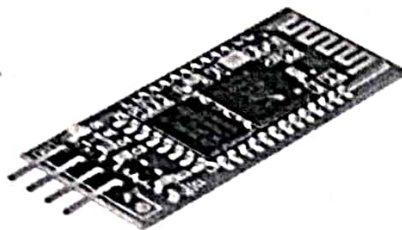


Fig.1 : Bluetooth Module

Fig.1 shows the Bluetooth Module which is used in the robot which operates at a frequency of 2.45 GHz. the transfer rate of this Bluetooth module is 712kbps. The robot is controlled with the help of this Bluetooth module which receives the information from the transmitter and then forwards it to the microcontroller to perform a particular task assigned to it. The Bluetooth module requires a small amount of power supply and is tiny and inexpensive.

(III) Ultrasonic Distance Sensor :

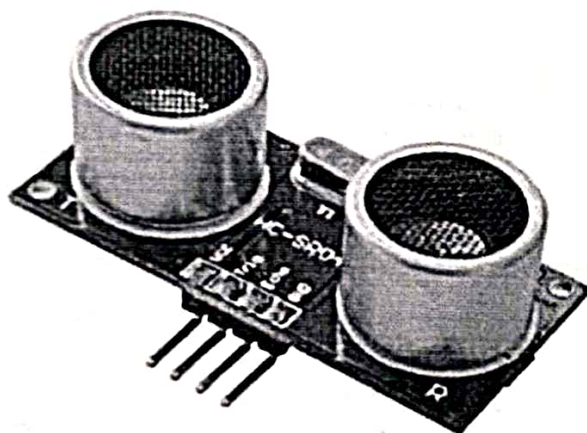


Fig.2 : Ultrasonic Distance Sensor

Fig2. Shows an ultrasonic distance sensor which works on the principle similar to that of a radar or sonar which calculates the distance and the type of the object which is placed in front of it using the echo in the form of radio or sound waves. This device is also known as a transceiver when it transmits and receives the data and even works as a transducer. These ultrasonic distance sensors generate very high frequencies which calculate the echo which is received after reflecting back from the object.

(IV) Mp3 Trigger :

The mp3 trigger is a PCB board which integrates the mp3 files in an easier way.

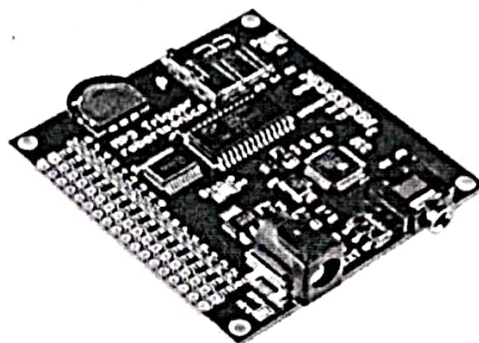


Fig.3 : Mp3 Trigger

Fig.3 shows the Mp3 trigger which is used in the robot consisting of 18 external trigger pins which when triggered plays a particular mp3 file assigned to that pin. The Mp2 trigger has a real time volume control which enables the user to control the volume of the mp3 sound at any instance of time. The formats in which the mp3 files are stored in the SD card are in fat32.

(V) Motor Driver :

The current provided to the DC motors by the microcontroller isn't enough to operate it and even the speed and direction of the DC motor isn't easy to be controlled. So, we use a motor driver which can control the speed of the motor using PWM i.e., Pulse Width Modulation and the direction of the DC motors can be controlled by the use of 4 consecutive keys.

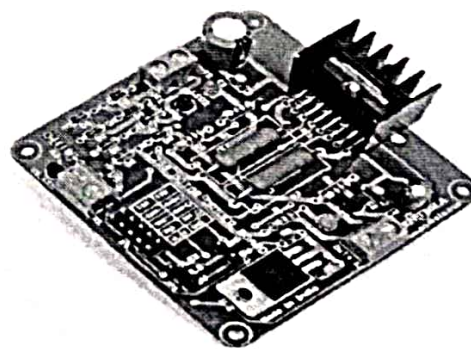


Fig.4 : L298N Motor Driver

Fig.4 shows the motor driver which is used in the robot to control the two DC motors in the same direction or in the opposite direction as per the requirement.

(VI) Servos :

A servo motor can be an ac, dc or brushless DC motor which is equipped with a positioning device similar to that of a digital decoder. A basic servo consists of a DC motor with a gear train along with a potentiometer providing position feedback and a small circuit used to control the position. Limit stops are also used in the servo which limits the shaft to turn beyond it.

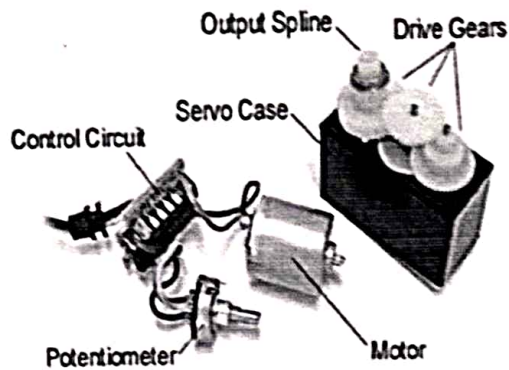


Fig.5 : Servo

(8) Jae-Joon Lee, Dae-Won Kim, Bo-Yeong Kang : "Exploiting child-robot aesthetic interaction for a social robot" in *International Journal of Advanced Robotic Systems*.



Fig.5 shows the type of servo used in the robot to control the arm movements, wrist movements, head movements and the elbow movements of the robot.

Applications :

Differentiates between colors. Tracks the face of a specific person. Follow voice command. Has an ultrasonic sensor which prevents it to crash into the obstacle.

Conclusions :

In today's world where the automated field has a lot of demand for this type of robots in order to employ them in manufacturing or in other processes, these robots are very useful as the chance of an error will be very less and the time span of a particular work process can be decreased by automation of the machines or using these types of robots instead of humans and using these robots in hazardous situations such as fire accidents or in radioactive places where it is very difficult for a human to survive makes it a lot easier for us to carry out the tasks at a safer distance by controlling these robots wirelessly.

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GEOPHYSICS: AN OVERTURE

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Abstract: *Geophysics is applied to societal needs, such as mineral resources, mitigation of natural hazards and environmental protection. Geophysical survey data are used to analyze potential petroleum reservoirs and mineral deposits, locate groundwater, find archaeological relics, determine the thickness of glaciers and soils, and assess sites for environmental remediation. Geophysics is the science which deals with investigating the Earth's internal structure dynamics, using the methods and techniques of Physics and Mathematics.*

Key words: *Geophysics, Interdisciplinary physical science, Geology.*

Geophysics is an interdisciplinary physical science concerned with the nature of the earth and its environment and as such seeks to apply the knowledge and techniques of physics, mathematics and chemistry to understand the structure and dynamic behavior of the earth and its environment. The required sequence of Mathematics, Physics and Geophysics courses is designed to provide a basic structure on which to build a program with science electives normally selected from Geology, Astronomy, Oceanography, Mathematics, Physics and Chemistry courses.

Geophysics is a subject of natural science concerned with the physical processes and physical properties of the Earth and its surrounding space environment, and the use of quantitative methods for their analysis. The term geophysics sometimes refers only to the geological applications: Earth's shape; its gravitational and magnetic fields; its internal structure and composition; its dynamics and their surface expression in plate tectonics, the generation of magmas, volcanism and rock formation. However, modern geophysics organizations use a broader definition that includes the water cycle including snow and ice; fluid dynamics of the oceans and the atmosphere; electricity and magnetism in the ionosphere and magnetosphere and solar-terrestrial relations; and

analogous problems associated with the Moon and other planets.

Although geophysics was only recognized as a separate discipline in the 19th century, its origins date back to ancient times. The first magnetic compasses were made from lodestones, while more modern magnetic compasses played an important role in the history of navigation. The first seismic instrument was built in 132 BC. Isaac Newton applied his theory of mechanics to the tides and the precession of the equinox; and instruments were developed to measure the Earth's shape, density and gravity field, as well as the components of the water cycle. In the 20th century, geophysical methods were developed for remote exploration of the solid Earth and the ocean, and geophysics played an essential role in the development of the theory of plate tectonics.

Geophysics is applied to societal needs, such as mineral resources, mitigation of natural hazards and environmental protection. Geophysical survey data are used to analyze potential petroleum reservoirs and mineral deposits, locate groundwater, find archaeological relics, determine the thickness of glaciers and soils, and assess sites for environmental remediation.

Geophysics is the science which deals with investigating the Earth's internal structure dynamics,

using the methods and techniques of Physics and Mathematics. The physical properties of earth materials such as density, elasticity, magnetization, and electrical conductivity all allow inference about those materials to be made from measurements of the corresponding physical fields - gravity, seismic waves, magnetic fields, and various kinds of electrical fields. Because Geophysics incorporates the sciences of Physics, Mathematics, Geology it is a truly multidisciplinary physical science.

Definitions:

Geophysics is the application of physics to study of the solid earth. It occupies an important position in earth sciences. It has been taught principally in Earth sciences departments of university. There is an obvious need for it to introduce to engineers and archaeologists much more widely than at present. Geophysics is developed from the disciplines of physics and geology and has no sharp boundaries that distinguish it from either.

The use of physics to study the interior of the Earth, from land surface to the inner core is known as solid earth Geophysics. Solid Earth Geophysics can be subdivided into Global Geophysics or pure Geophysics and Applied Geophysics. 'Global Geophysics' is the study of the whole or substantial parts of the planet. Geophysical methods may be applied to a wide range of investigations from studies of the entire earth to exploration of a localized region of the upper crust, such as plate tectonics, heat flow and paleomagnetism. 'Applied Geophysics' is the study of the Earth's crust and near surface to achieve an economic aim, or making and interpreting measurements of physical properties of the earth to determine subsurface conditions usually with an economic objectives (e.g. discovery of fuel or mineral depositions). Applied Geophysics Comprises the following subjects:

- 1- Determination of the thickness of the crust (which is important in hydrocarbon exploration.
- 2- Study of shallow structures for engineering site investigations.

- 3- Exploration for ground water and for minerals and other economic resources.
- 4- Trying to locate narrow mine shafts or other forms of buried cavities.
- 5- The mapping of archaeological remains.
- 6- Locating buried pipes and cables.

Engineering Geophysics: the application of geophysical methods to the investigation of near-surface physico-chemical phenomena which are likely to have (significant) for the management of the local environment.

The discipline of environmental geophysics needs to bring to the attention of policy-makers and planners. The principal distinction between engineering and environmental geophysics is that the former is concerned with structures and types of materials, whereas the latter can also include mapping variations in pore fluid conductivities to indicate pollution plumes within ground water, for examples:

- Geophysics can be used to investigate contaminated land to locate polluted areas prior to direct observations using trial pits and boreholes. Large areas can be surveyed quickly at relatively low cost.
- The alternative and more usual approach is to use a statistical sampling techniques, the geophysical survey is used to locate anomalous areas and there will be a higher certainty that the constructed trial pits and boreholes will yield useful results.
- Geophysics is also being used much more extensively over landfills and other waste repositories.
- Geophysics can be used to locate a corroded steel drum containing toxic chemicals. To probe for it poses the real risk of puncturing it and creating a much more significant pollution incident.
- By using modern geomagnetic surveying methods, the drum's position can be isolated and a careful excavation investigated to remove the offending (hazardous) object without damage. Such

approach is cost effective and environmentally safer.

- Geophysics investigating of the interior of the earth involve taking measurements at or near the earth's surface that are influenced by the internal distribution of physical properties.
- Analysis of these measurements can reveal how the physical properties of the earth's interior vary vertically and laterally.
- Exploration geophysics developed from the methods used in global geophysics.

History of Geophysics: The beginning of geophysics has been started since: a- Gilbert's discovery which stated that the earth behaves as a great and irregular magnet. b- Newton's theory of gravitation.

- The initial step in the application of geophysics to the search for minerals was taken in 1843 by von warde which used the magnetic theodolite of Lamont to discover magnetic ore bodies.
- In 1879 a book by Robert Thalen was published entitled "on the examination of iron ore deposits by magnetic methods".
- At that time, the first magnetometer called Thalen-Tiberg magnetometer was manufactured in Sweden.
- During the past seventy years, geophysics was used greatly in oil and gas exploration and many geophysical techniques have been developed for the detection and mapping of unseen deposits and structures.
- Advances have been rapid during the past decade because of the development of new electronic devices for field equipment and the widespread applications of the digital computer in the interpretation of geophysical data.
- Several of the devices now used by geophysicists were developed from methods used for locating guns, submarines and aircraft during the two world wars.

Geophysics is a highly interdisciplinary subject, and geophysicists contribute to every area of the Earth sciences. To provide a clearer idea of what

constitutes geophysics, this section describes phenomena that are studied in physics and how they relate to the Earth and its surroundings. The gravitational pull of the Moon and Sun give rise to two high tides and two low tides every lunar day, or every 24 hours and 50 minutes. Therefore, there is a gap of 12 hours and 25 minutes between every high tide and between every low tide.

Geophysical fluid dynamics is a primary tool in physical oceanography and meteorology. The rotation of the Earth has profound effects on the Earth's fluid dynamics, often due to the Coriolis Effect. In the atmosphere it gives rise to large-scale patterns like Ross by waves and determines the basic circulation patterns of storms. In the ocean they drive large-scale circulation patterns as well as Kelvin waves and Ekman spirals at the ocean surface. In the Earth's core, the circulation of the molten iron is structured by Taylor columns.

Waves and other phenomena in the magnetosphere can be modelled using magneto hydrodynamics. Geophysical measurements are generally at a particular time and place. Accurate measurements of position, along with earth deformation and gravity, are the province of geodesy. While geodesy and geophysics are separate fields, the two are so closely connected that many scientific organizations such as the American Geophysical Union, the Canadian Geophysical Union and the International Union of Geodesy and Geophysics encompass both.

Absolute positions are most frequently determined using the global positioning system (GPS). A three-dimensional position is calculated using messages from four or more visible satellites and referred to the 1980 Geodetic Reference System. An alternative, optical astronomy, combines astronomical coordinates and the local gravity vector to get geodetic coordinates. This method only provides the position in two coordinates and is more difficult to use than GPS. However, it is useful for measuring motions of the Earth such as mutation and Chandler wobble. Relative positions of two or

more points can be determined using very-long-baseline interferometry.

Gravity measurements became part of geodesy because they were needed to related measurements at the surface of the Earth to the reference coordinate system. Gravity measurements on land can be made using gravimeters deployed either on the surface or in helicopter flyovers. Since the 1960s, the Earth's gravity field has been measured by analyzing the motion of satellites. Sea level can also be measured by satellites using radar altimetry, contributing to a more accurate geoid. In 2002, NASA launched the Gravity Recovery and Climate Experiment (GRACE), wherein two twin satellites map variations in Earth's gravity field by making measurements of the distance between the two satellites using GPS and a microwave ranging system. Gravity variations detected by GRACE

include those caused by changes in ocean currents; runoff and ground water depletion; melting ice sheets and glaciers.

Relation between Geology and Geophysics:

GEOLOGY: It involves the study of the earth by direct observations on rocks either from surface exposures or from boreholes and the deduction of its structures, composition and historical evolution by analysis of such observations.

GEOPHYSICS: It involves the study of the inaccessible earth by means of physical measurements, usually on or above the ground surface. It also includes interpretation of the measurements in terms of subsurface structures and phenomena.

Geophysical studies are quantitative and tangible, whereas geological studies are qualitative and descriptive.

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STRUCTURAL AND MAGNETIC PROPERTIES OF CA CO-DOPED BIFEO₃ : ER NANOPARTICLES BY SOL-GEL COMBUSTION METHOD

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ABSTRACT

Pure BiFeO₃ (BFO) and Ca co-doped BFO: Er (0.0, 0.1) nanoparticles have been synthesized by the sol-gel combustion method. From X-ray diffraction studies the phase transition was noticed from Rhombohedral (Pure BFO) to orthorhombic (Er doped BFO) and then finally to cubic structure (Ca co-doped BFO: Er). From Scanning Electron Microscopy (SEM) studies morphology of the synthesized samples was spherical in shape and less agglomeration was noticed with increasing of Ca in Er doped BFO nanoparticles. An EDAX spectrum confirms the presence of all elements in prepared samples. From Vibrating Sample Magnetometer (VSM) studies it was noticed that the saturation magnetization is increased by doping with Ca in BFO: Er nanoparticles.

Key words: Pure, Ca co-doped BFO: Er (0.0, 0.1) nanoparticles, sol-gel combustion method, XRD, SEM and VSM studies.

INTRODUCTION

In recent years, research on the subject of multiferroics have attracted to a great extent [1]. This species of materials is seemly for actuators, multistate memory devices, nondestructive memories, sensors and photoelectric applications, etc., due to existence of at least two or more ferroic properties in single phase at room temperature [2-4]. Multiferroics of BiFeO₃ (BFO) exhibits ferromagnetism, ferroelectricity and ferroelasticity at room temperature and it is rhombohedrally distorted ABO₃ perovskite structure [5]. Many researchers take a great challenge to overcome these difficulties by replacing A-site or B-site and AB-sites with rare-earth, alkaline and transition metal elements and improve the magnetic and electrical properties of BFO nanoparticles [6].

Soltani, et.al, reported the structural distortion from rhombohedral to cubic structure and increasing of magnetization properties with doping of Ba [7]. Yumin, et.al, reported the structural distortion to orthorhombic with doping of Er [8]. Recently Wang, et.al, reported about the structural and increasing of magnetization with Co doping

of Sm and Nb [9]. Izabela, et.al, reported the structural distortion of cubic structure and increasing magnetization with doping of Co [10].

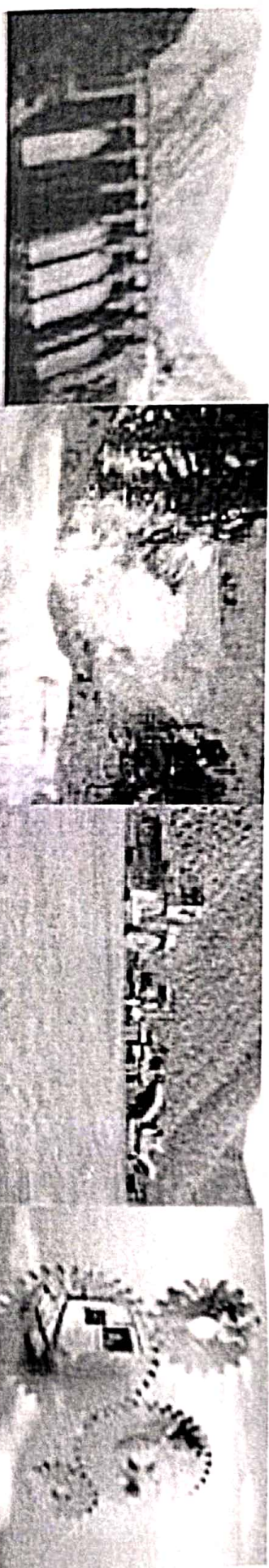
In the present work, we report a simple sol-gel combustion route to synthesize pure BFO, Ca co-doped BFO: Er (0.0, 0.1) nanoparticles at room temperature. In this study, we report the structural, morphological, chemical and magnetization properties of synthesized samples.

EXPERIMENTAL AND CHARACTERIZATION TECHNIQUES

Pure and Ca co-doped BFO: Er (0.0, 0.1) nanoparticles were successfully synthesized by sol-gel combustion method. Stoichiometric ratio of high purity materials of Bi(NO₃)₃.5H₂O, Fe(NO₃)₃.9H₂O, Er(NO₃)₃.9H₂O and Ca(NO₃)₂.4H₂O were used as precursor materials and dissolved in concentrate HNO₃ and distilled water. Tartaric acid was added to the precursor solution. After complete dissolution resulting solution was continuously stirred at 80 °C and obtain yellowish gel and finally dried at 160 °C on hot plate for 3 hrs. Finally Brownish synthesized material grounded into powders and calcined at 600 °C for 3 hrs. [8].

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Smart Healthcare Monitoring System using Raspberry Pi on IoT

Title:

An empirical approach to predict software development effort using linear regression model

Author (s):

M. Pramod Kumar, M. Babu Reddy and A. Lakshmi Lavanya

Abstract:

To develop qualitative software products in a given schedule it is necessary to estimate the software effort. The effort estimation is helpful to the project managers to determine effort required to complete qualitative software products. In this paper we proposed a novel linear regression model based on software size metric. We applied proposed regression model on 60 real time BPO projects. The proposed regression model considers a linear relationship between size and effort. To validate the accuracy of regression equation, we calculated R^2 value. We used MMER and $PRED(x)$ to calculate error rate and made comparisons with standard models. The proposed model has shown much closed and better results against some standard estimation models.

Full Text

Title:

Air pollution by emissions of heat sources

Author (s):

Pavel Aleksandrovich Khavanov and Anatoly Sergeevich Chulyenov

Abstract:

In this publication, a comparative assessment of air pollution from sources of heat supply systems for a different type of development was carried out. A qualitative and quantitative assessment of the sanitary and hygienic indices of the air basin state is provided for the location of heat generating plants. Based on a comparison of quantitative characteristics, one can obtain the results of comparative calculations and the main qualitative indices of the technical solutions under consideration. The characteristics of the source of heat in each particular case were determined by the power of the heat source and the technical characteristics of the chimneys. It is revealed that the change in the dispersion zones taking into account the "wind rose" does not have a significant effect. It is received that the overlapping of dispersion zones in the housing and cottage heat supply is due to the density of construction and must be taken into account when developing architectural and planning concepts and technical solutions for heat supply.

Full Text

Title:

Mobile educational game for earthquake disaster preparedness in elementary school

Author (s):

Endang Widi Winarni, Endina Putri Purwandari and Yolanda Hervianti

Abstract:

Prevention of victims and losses due to earthquake disaster can be done earlier through the use of information media that are currently popular and widely used by the community, such as mobile phone communication. Educational game is a game-based learning. The game has a fantasy element that involves players in learning activities through an narration or storyline. Application of earthquake disaster mitigation is an educational game that is useful to add insight, knowledge, and understanding of children in the effort to overcome the impact of earthquake disaster. This study aims to build an educational game application on the Android platform as a learning medium for earthquake disaster mitigation and the basics of safety in the face of earthquake disaster in a more interesting and fun way. This educational game application has a video about the simulation of earthquake and earthquake mitigation video accompanied by game consisting of 3 stage that is before, during and after earthquake. This educational game application is expected to provide basic safety information in dealing with earthquake disaster for elementary school students.

Full Text

Title:

Effect of tri-biological properties on jute/E-glass fibre reinforced polymer composites

Author (s):

B. Sudhabindu and P. V. Ramarao

Abstract:

Composite materials, combination of two or more different constituents with different properties, find extensive use in transport and space vehicles due to their high specific strength. This paper explains about the effects of tri-biological properties on jute fibre reinforced by E-glass fibre. In this deterioration test is conducted on sunlight. Fatigue test is done to find the cracks. Wear tests are done at different angles in order to find out the highest wear out. They are subjected to tensile and hardness test and surface morphology is carried out for the specimens.

Full Text



AN EMPIRICAL APPROACH TO PREDICT SOFTWARE DEVELOPMENT EFFORT USING LINEAR REGRESSION MODEL

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ABSTRACT

To develop qualitative software products in a given schedule it is necessary to estimate the software effort. The effort estimation is helpful to the project managers to determine effort required to complete qualitative software products. In this paper we proposed a novel linear regression model based on software size metric. We applied proposed regression model on 60 real time BPO projects. The proposed regression model considers a linear relationship between size and effort. To validate the accuracy of regression equation, we calculated R^2 value. We used MMER and PRED(x) to calculate error rate and made comparisons with standard models. The proposed model has shown much closed and better results against some standard estimation models.

Keywords: effort estimation, linear regression, KLOC, MMRE, PRED.

1. INTRODUCTION

The problems faced by project managers in managing and controlling software projects are overrun of effort estimation. It surely affects project designers to make correct decisions and leading to the failure of entire software project development. For the last decade there is a growth in demand for software development team to build quality application software in the competitive global markets. The total investment of application software development and maintenance has been overrun for the past ten years. As analyzed by [1] [2], the embellish effort schedule is varied substantially from 41% to 258%, and the total investment over-prediction is from 97% to 151%. Besides, there are researches conducted by US government agencies admit that 50% of these projects have been beat the estimated costs while in the case of 46% of those developed projects were useless, 60% of the software project development beats the original scheduled completion time [3]. The results indicated that not only the importance of planning and controlling over software projects, but also the early effort estimation of software project development is important too. The next section explains background and related research for our project. In section 3 describes the proposed methodology. Section 4 describes experimental results and section 5 describes conclusion.

2. BACKGROUND AND RELATED WORK

The below section describes the main concepts used in this paper which includes empirical parametric estimation models, linear regression and evaluation criteria.

2.1 Empirical estimation models

These models mainly rely on the experience gained on previously developed projects. They used size and effort value in the form of explicit function, by applying regression analysis methods like linear and

exponential dependence. Generally effort is expressed in values such as man-hour or man-day.

Many empirical parametric models have been developed over time resulting in attempts to determine the best among them which would be stood standard. Once such model is determined, one should have sufficient valid data to be able to establish the relation between estimated value and independent parameters in the model. One of the popular known empirical parametric models developed hitherto is the form of

$$\text{Effort} = A (\text{LOC})^B \quad (1)$$

Where Effort is in the form of man-months to implement the system and LOC is source line of code to be developed. This model had been investigated by Walston and Felix, Bailey and basil, Boehm (1981, 2004) [4] [5] as the basis for COCOMO model. Walston and Felix have reached the value for $b < 1$ and other researchers have reached values > 1 . Kitchenham (1992), Kitchenham and Pearl Brereton [6] (2010) in his research concludes that in the prevailing number of cases the value of b is close enough to 1 which justifies consideration of introducing linear dependence between the number of code lines and effort. In order to verify this theory, Banker [7], Chang and Kemerer (1994), used model form:

$$\text{Effort} = a + b\text{LOC} + c \text{LOC}^2 \quad (2)$$

The best known and most widely used metrics among them is function points metrics. A number of researchers, among them Albrecht and Gaffney (1983), (Kemerer 1987), Kemerer (1993) Matson, Barret and Mellichamp (1994), [8] [9] have examined models form:

$$\text{Effort} = a + b \text{FP} \quad (3)$$

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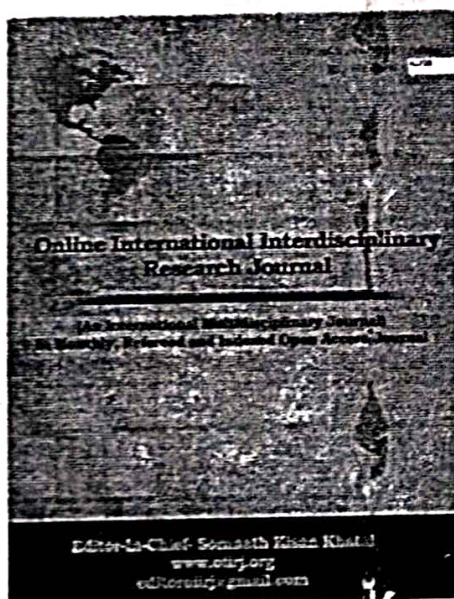
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Tourism Development in India: A Conceptual Approach

C. Baba Fakardhin

Lecturer in History, V.R.S. Degree College V.N. Palli, YSR Dist, A.P. India

Abstract

The Indian Tourism Industry has flourished in the past few years, significantly contributing to the nation's Development, Gross Domestic Product, Foreign Exchange Earnings and Employment. India with her enriched beauty is unambiguously one of the most viable candidates for promoting tourism. Since the past few years, Government of India has undertaken various measures to promote tourism. Tourism is growth oriented industry with its impact on the employment and foreign exchange potential of the country. This paper analyses the changes in number of tourist arrivals from 1997 to 2012, increase in economic growth and the development of tourism. The number of tourist arrivals is directly proportional to the economic growth. India witnessed a grand total of 6.58 million Foreign Tourist Arrivals with annual growth rate of 4.3% in 2012. It is the second largest foreign exchange earner in India recording estimated earnings of 94487 Crore in 2011-2012. With world tourist arrivals expected to increase by 43 million every year on an average from 2010 to 2030. The domestic tourism is also a major factor which is contributing to the growth in tourism sector.

KEYWORDS: Tourism, Tourism Development, Gross Domestic Product, Foreign Exchange Earnings, Economic Growth and Tourist Growth.

INTRODUCTION

Tourism is travel for recreational, leisure or business purposes. The Word "Tourism" defines tourists as people who 'travel to and stay in places outside their usual environment for more than twenty-four (24) hours and not more than one consecutive year. Among the various service industries, tourism in India is the largest and fastest growing in the country. It has a vast impact on creation of jobs and national economy that plays a major role in other aspects of the country's growth and development.

It is widely accepted that tourism is among the world's fastest growing and largest industries on the basis of its economic benefits. Asia leads the growth in tourism industry with +8%, Europe +4%, Americas +5% and Africa +7%. Undoubtedly, the growth in international tourist arrivals and receipts will continue in the future. Many developing countries have seen tourism as the major source of foreign exchange earnings. According to the World Tourism Organization (UNWTO), tourism is 'number one in the international services trade', accounting for 40 per cent of global trade in services and 6 per cent of total world trade. The tourism industry directly provides approximately 3 per cent of global employment, or 192 million jobs – the equivalent to one in every twelve jobs in the formal sector. In developing countries like India tourism has become one of the major sectors of the economy, contributing to a large proportion of the National Income and generating huge employment opportunities. It has become the fastest growing service industry in the country with great potentials for its further expansion and diversification. However, there are pros and cons involved with the development of tourism industry in the country. Over the decades, tourism has experienced continued growth and deepening

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Muslim Women Education in India- A Voyage from Past to Present: A Review

C. Baba Fakardhin

Lecturer in History, V.R.S. Degree College, V.N. Palli, Ysr Dist, A.P. India

Abstract

India is a country of diversities inhabited by various ethnic, cultural, linguistic and religious groups. The National Commission for Minorities in India has identified Muslims, Christians, Sikhs, Buddhists and Parsees which constitute 18.8% of the total population of the country as religious minorities, while Hindus are the majority group. Among these various minorities, Muslims occupy an important position in Indian society. The 2009 CIA World Fact Book data put the Muslim population in India at 156,254,615. Muslims are found all over India, but they are largely concentrated in 12 states where the Muslim population is more than 10% of the state population.

Education is an indispensable means for helping the Muslim women out of their economic misery because economic dependency is the major factor contributing to the low status of Muslim women. After independence women's education made considerable progress in India. The number of girls schools and colleges increased. Muslim girls going to schools and colleges also increased slowly but steadily. Muslim parents are becoming anxious to educate their daughters along with their sons. Village girls are going to schools while in towns many of them are seeking higher education. Still Muslim women are changing very gradually, some times, the change is painful slow. Because for a long time Muslim women have remained secluded and have lived the life of submission, so most of them dislike the idea of change. But studies done in the field of Muslim women revealed that the lack of good quality schools and hostel facilities for girls, poor quality of teachers are believed to be some of the important factors responsible for the low level of educational attainment among Muslims. But it is worthwhile to say that Muslim women has a strong desire and enthusiasm for education, but hurdles like low access to schools in the vicinity, poverty, financial constraints and discrimination faced at school prevent them from continuing education. These all demand a thorough discussion among policy makers, academicians and community leaders.

This paper highlights progress of education of Muslim women in education since independence along with the suggestions to empower them through education.

India is a country of diversities inhabited by various ethnic, cultural, linguistic and religious groups. The National Commission for Minorities in India has identified Muslims, Christians, Sikhs, Buddhists and Parsees which constitute 18.8% of the total population of the country as religious minorities, while Hindus are the majority group. Among these various minorities, Muslims occupy an important position in Indian society. The 2009 CIA World Fact Book data put the Muslim population in India at 156,254,615. Muslims are found all over India, but they are largely concentrated in 12 states where the Muslim population is more than 10% of the state population. Accordingly, the Indian Constitution promises 'equality of opportunity' and 'education for all'. In addition, Article 29 of the Constitution grants the minorities the right to conserve their language, script, and culture. Article 30.1, states that the religious minorities have "the right to establish and administer Educational institutions of their choice". Article 350 (B) directs the State to safeguard the linguistic interests. In India, for historical and sociological reasons, certain sections of



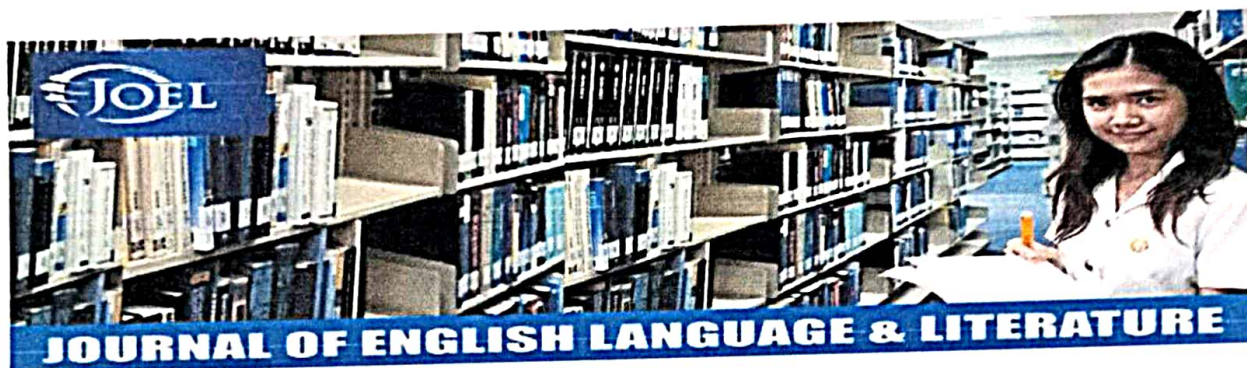
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A RELATIONSHIP BETWEEN HISTORY AND FICTION: A CASE STUDY OF NGUGI WA THIONG'O'S "A GRAIN OF WHEAT"

Barungi Celestin¹, Twagnumukiza Graten²

(Faculty of Education, Department of Languages, University of Gitwe.)

(Faculty of Applied Fundamental Sciences, INES Ruhengeri)

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BEYOND THE 'HUMAN': THE EXTRA-HUMAN QUALITIES IN DORIS LESSING'S "THE FIFTH CHILD"

Preeti Priyadarshi

Lecturer in a non-government aided college, Odisha

PhD Research scholar, Ravenshaw University

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B.R.AMBEDKAR AS THE MESSIAH OF THE DEPRESSED CLASSES AND SOCIAL PROPHET OF THE UNTOUCHABLES EFFECTING A HEALTHY SOCIAL TRANSFORMATION IN THEIR LIVES: AN APPRAISAL

Dr. S.Chelliah*

(Professor, Head & Chairperson, School of English & Foreign Languages, Department of English & Comparative Literature, Madurai Kamaraj University, MADURAI – 625 021 Tamil Nadu, India)



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DECONSTRUCTION OF CASTE SYSTEM IN THE LIGHT OF AMBEDKARISM



Dr. S. M. Basha

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POWER RELATIONS AND DALIT CONSCIOUSNESS IN INDIAN SOCIETY



Dr Shuchi Agrawal

(Associate Professor, Amity Institute of English Studies and Research, Amity University, NOIDA)



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Dr. AMBEDKAR AS THE MODERN MOSES: THE VOICE OF THE OPPRESSED



K. J. Wesley Sasikanth

(Professor, Managing Editor and Publisher, VEDA Publications)



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Dr. T. SASIKANTH REDDY

(Lecturer in English, S. C. N. R. Govt. Degree College, Proddatur Town, YSR Dist, A.P. India, 516360.)



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Dr. G. Vedanthadesikan

(Director, Centre for Rural Development, Annamalai University, Annamalai Nagar 608 002.)



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Framing the Space(s): Remapping experiences and (con)Textualising Ambedkarism in Dalit Literature

Dr. Samir Kumar Panigrahi

(Principal, Black Diamond Junior College, Jharsuguda, Odisha.)



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FOR JUSTICE AND DIGNITY OF SHUDRAS IN INDIAN SOCIETY WITH SPECIAL REFERENCE TO "THE RIDDLE OF SHUDRAS"

Dr. Mohammad Ameen Parray

(Sr. Assistant Professor of English, North Campus, University of Kashmir,

Delina Baramulla.)



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Dr. P. BALAMURUGAN

(Sr. Asst. Professor, Centre for Rural Development, Annamalai University

Annamalai Nagar-608 002.)



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Dr. B. R. Ambedkar: The Treasured Icon of the Dalits

Dr. M. Farida Begum

(Asst. Prof. in English, KVR Govt. College for Women, Kumool (A.P.)



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AMBEDKAR'S VIEWS ON SOCIAL PHILOSOPHY AND EDUCATION

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ABSTRACT



Dr. B.R. Ambedkar said that every educational institute from primary school to University College should be an agency of change. Ambedkar strongly held that education should be a priority for the society and utilised for growth of individuals with character. This paper focuses on the philosophical thoughts of Ambedkar in context to education. Ambedkar wanted a type of education that not only inculcates awareness and fulfilment of human rights among citizen but also teaches human dignity and justice in India. According to him Education could open the eyes and encourage the oppressed ones to fight and remove injustice and exploitation they are suffering from ages. He recognized that, lack of education was the main cause for the backwardness of poor people. He preferred humanistic education which enables a man to rediscover himself and ensure freedom rather than being a student of the church, school or the state. He put all his efforts to ensure the educational opportunities to all the citizens of independent India without any discrimination, for which he framed some rights in Indian Constitution.

Key words : *Dr. B.R. Ambedkar, Education and Social Justice*

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**Research Paper : LIFE OF WOMEN IN THE EARLY VEDIC PERIOD: AN
OUTLOOK**

Research Scholar : C. Baba Fakardhin

C. Baba Fakardhin

**M.A., M.Phil. ,Lecturer in History, V.R.S. Degree College ,
V.N. Palli, YSR Dist, A.P. India.**

**LIFE OF WOMEN IN THE EARLY VEDIC PERIOD: AN OUTLOOK****C. Baba Fakardhin****M.A., M.Phil. ,Lecturer in History, V.R.S. Degree College , V.N. Palli, YSR Dist, A.P. India.****ABSTRACT**

The Vedas, the oldest scriptures of Hinduism, a collection of religious and philosophical poems and hymns composed over several generations beginning as early as 3000 B.C. These Vedas were orally passed down from generation to generation within the Vedic period. According to a school of thought The Vedic religion was further developed when the Indo-Aryans migrated into the Ganges Plain after 1100 B.C. and became settled farmers further synchronizing with the native cultures of northern India.

After the 12th century B.C. as the Rig Veda had taken its final form, the Vedic society transitioned from semi-nomadic life to settled agriculture. Vedic culture extended into the western Ganges Plain, The Gangetic plains had remained out of bounds to the Vedic tribes because of thick forest cover. After 1000 B.C. the use of iron axes and ploughs became widespread and the jungles could be cleared with ease. This enabled the Vedic Aryans to settle at the western Gangetic plains. Many of the old tribes coalesced to form larger political units.

**STATUS OF WOMEN IN VEDIC TIMES**

The Status of Women in Vedic times is unlike the popular belief they enjoyed an honored place in the society. As Rig-Veda statement goes, "The home has, verily, its foundation in the wife"- The Rig Veda

During the Vedic age, more than 3,000 years ago, women were assigned a high place in society. They shared an equal standing with their men folk and enjoyed a kind of liberty that actually had societal sanctions. The ancient Indian philosophical concept of 'shakti', the feminine principle of energy, was also a product of this age. This took the form of worship of the female idols or goddesses.

The paper highlights the status of women in vedic period their education, marriage, widow remarriage, divorce, some women rishis thereby focusing on the importance of women.

KEY WORDS : collection of religious and philosophical poems , ancient Indian philosophical.

INTRODUCTION TO VEDIC PERIOD

The Vedas, the oldest scriptures of Hinduism, a collection of religious and philosophical poems and hymns composed over several generations beginning as early as 3000 B.C. These Vedas were orally passed down from generation to generation within the Vedic period. According to a school of thought The Vedic religion was further developed when the Indo-Aryans migrated into the Ganges Plain after 1100 B.C. and became settled farmers further synchronizing with the native cultures of northern India.

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TECHNOLOGYSPECTROPHOTOMETRIC DETERMINATION OF AMETRIDIONE AND IN ITS
COMMERCIAL FORMULATIONSG.Chandra Sekhar¹, B.Sathyanarayana² & P.Suguna³¹Department of Chemistry, Govt. degree & PG College, Puttur(A.P)^{2&3}Department of Chemistry, SGS Arts College, Tirupati(A.P)

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ABSTRACT

A simple, précis, rapid sensitive and accurate spectrophotometric methods have been developed for the estimation of Ametrudione in pure form and its formulations and Spiked vegetables and water samples. This method is based on oxidative coupling of Ametrudione with MBTH in the presence of Ferric chloride to form green colored product with Maximum of 615nm. The product obeyed beers law in the concentration range 0.5-3 ml (5-30 μgml^{-1}) with molar absorptivity of 1.001×10^4 . Sandel's sensitivity 0.004945. The assay of results was found to be good agreement with label claim.

Keywords: Ametrudione. UV. Validation.












I. INTRODUCTION

A survey of the literature revealed that different analytical techniques for the assay of MTM have been reported. Voltametric detection of the herbicide Ametrudione at a bismuth film electrode in non deaerated solution¹ Electroanalysis of Ametrudione and metribuzen on lignin By Adsorption² ,Electrochemical reduction of Ametrudione³ , Identification of different products obtained by electrochemical and photochemical reduction of the Ametrudione⁴ Voltametric determination of Ametrudione with an electrogenerated molecularly imprinted polymer microsenser⁵ Electrochemical determination of the effect of lead (II) on the photochemical degradation of the pesticide Ametrudione⁶ Voltametric determination of Herbicide Ametrudione using Mercury and silver solid amalgam electrode⁷ Preconcentration and voltametric determination of the herbicide Ametrudione with a silica modified carbon paste electrode⁸ Determination and method validation of Ametrudione in soil by RP-HPLC⁹ Electrochemical determination of the effect of Copper (II) on the photochemical degradation of the pesticide Ametrudione¹⁰.

There is however no reported UV- Visible spectrophotometric method for the analysis of Mitamitron in its technical grade and formulations. This describes a validated UV- visible spectrophotometric method for the quantitative determination of Mitamitron. Functional group used for color development of Mitamitron was primary amine group. The results obtained in this method were based on complex formation reaction of Mitamitron with Oxidative coupling reaction with MBTH / Ferric chloride.

The author has developed UV- Visible spectrophotometric method based on the use of method, without use of any interferences. An attempt has been made to develop and validate all methods to ensure their accuracy, precision, repeatability, reproducibility and other analytical method validation parameters as mentioned in the various guidelines.

This is describes a validated UV-Visible method for the quantitative determination of Ametrudione. The empirical formula for Ametrudione is $\text{C}_{10}\text{H}_{10}\text{N}_4\text{O}$ and the molecular weight is 202.2 grams. It has the following structure.

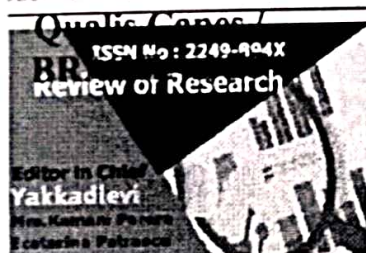
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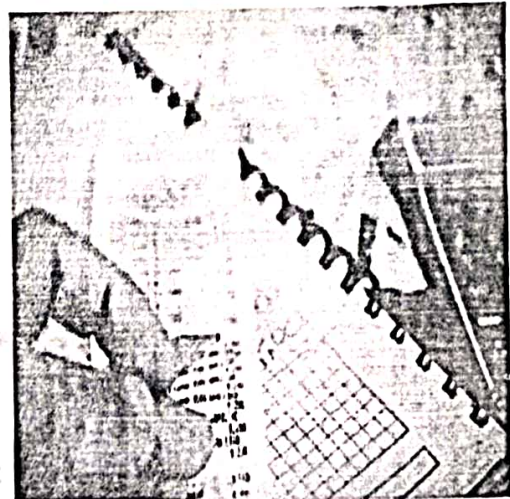
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SPECIAL ECONOMIC ZONE: FACTS, ROLES, AND OPPORTUNITIES OF INVESTMENT



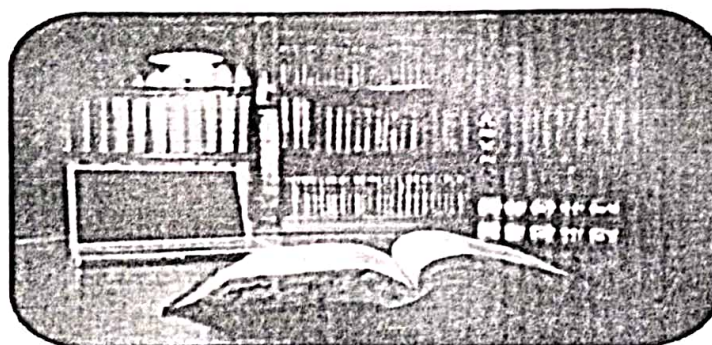
S.B. Sreerama Naik

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ABSTRACT: This paper shows an inside and out audit of Special Economic Zone (SEZ) everywhere throughout the world. This can be abridged that a foundation of SEZ intends to upgrade the thriving of the nation. There are

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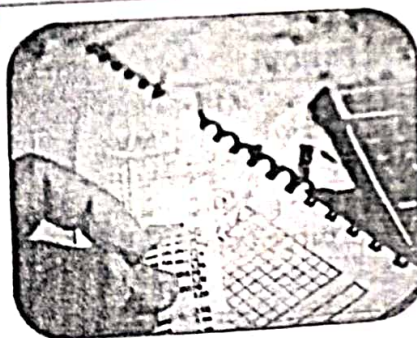
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SPECIAL ECONOMIC ZONE: FACTS, ROLES, AND OPPORTUNITIES OF INVESTMENT

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ABSTRACT

This paper shows an inside and out audit of Special Economic Zone (SEZ) everywhere throughout the world. This can be abridged that a foundation of SEZ intends to upgrade the thriving of the nation. There are a few structures or kinds of SEZ rely upon the setting up destinations, foundation of the nation, nation's legislative issues, and geological area. Six sorts of Special Economic Zone – Free Trade Zone, Export Processing Zone, Enterprise Zone, Single Factory, Free Ports, and Specialized Zone – related with their characteristics are presented here. It additionally displays the bits of knowledge of three driving countries in overseeing SEZ which incorporate; 1) the United States of America, the pioneer of SEZ, 2) Shenzhen city of China, the best model of SEZ, and 3) India, the greatest SEZ on earth. Those countries don't just put resources into their very own nations. Impediments and advantages in building up SEZ are additionally exhibited. The vast majority of those are about unique law, selective direction, a decrease of task boundaries, impose exclusion, and budgetary help. Along these lines, this article can be utilized as a rule for nations which might want to create SEZ later on.

KEYWORDS: Special Economic Zone, Facts, Roles, Opportunity, Thailand.

INTRODUCTION:

Special Economic Zone (SEZ) was developed in 1937 in New York, the United States of America (USA). The other name of SEZ is "Outside Trade Zone" (FTZ). In 1942, the USA placed assets into setting up the SEZ in Puerto Rico, starting now and into the foreseeable future, distinctive countries have moreover settled SEZ anyway might be in a substitute name. Iceland and Taiwan developed SEZ in 1960. India set up SEZ to be particular "Admission Processing Zone" in 1980. A standout amongst the most outstanding SEZ is Shenzhen Special Economic Zone which built up in 1980. As of not long ago, the Special Economic Zone has been situated in excess of 135 nations around the globe. Especially in the USA, the pioneer of SEZ has 257 locales of FTZ and 545 regions of FTZ subzone. SEZ is characterized as the region with an uncommon benefit that is set up particularly by any nations with the end goal to draw in the outside business people in putting resources into the nation. The benefit may incorporate a unique venture strategy or principle or direction and extraordinary help in framework e.g., an expense facilitating, a budgetary help, issuance of work allow for outside specialists. The organizations have been advanced under the SEZ, including industry, farming, business, the travel industry, administrations or some other task supporting a Free Trade Area.

TYPE OF SPECIAL ECONOMIC ZONE

For the most part, SEZ plans to upgrade the success of the nation. There are a few types of SEZ rely upon the setting up goals, framework of the nation, nation's legislative issues, and topographical area. Previously, SEZ was chiefly settled and worked by the administration, which for the most part fizzled. Subsequently, a few nations changed its standards and directions in enabling the private divisions to have

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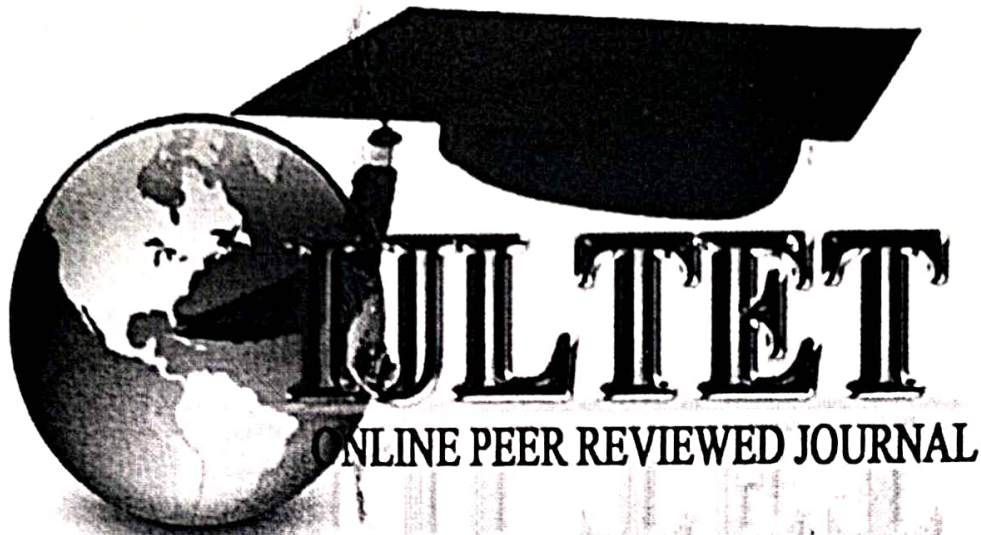


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AN EMPIRICAL STUDY ON REGRESSION ANALYSIS TO PREDICT SOFTWARE EFFORT BASED ON USE CASE POINTS

M. Pramod Kumar¹ & Dr M Babu Reddy²

Abstract: - The effort estimation of software development is a process of predicting the most realistic effort (person-hours) required to maintain and development of software. This paper aims to provide best regression technique among linear regression, multi linear regression, exponential regression, and power regression to predict software effort using use case points. The main contribution of this study is a comparative analysis of different regression techniques. To validate the accuracy of regression techniques we have used R^2 value, MMRE and TSS. From this study we observed that linear regression, exponential regression, and power regression produced same results with some variance over multi linear regression.

Keywords: Regression Analysis, Software Effort

1. INTRODUCTION

Software development effort estimates are the basis for project planning, budgeting and bidding. These are demanding practices in the software industry, because poor estimation and planning often has affecting consequences [1]. The common argument on the project cost overruns is very large. Boraso reported that [2] 60% of large projects significantly overrun their estimates and 15% of the software projects are never completed due to the gross misestimating of development effort. Software product delivery on time, within budget, and to an agreed level of quality is a critic concern for software organizations. Accurate estimates are crucial for better planning, monitoring and control [3].

2.1 Linear Regression

Linear regression attempts to paradigmatic relationship between two variables by fitting a linear equation to observed data. One variable is examined to be an explanatory variable, and the other is examined to be a dependent variable. For suppose modeler might want to relate the weights of individuals to their heights using a linear regression model. Before attempting to fit a linear model to observed data, a modeler should first determine whether or not there is a relationship between the variables of interest. This does not necessarily imply that one variable causes the other (for example, higher SAT scores do not cause higher college grades), but that there is some significant association between the two variables. A scatter plot can be a helpful tool in determining the strength of the relationship between two variables. If there appears to be no association between the proposed explanatory and dependent variables then fitting a linear regression model to the data probably will not provide a useful model. A valuable numerical measure of association between two variables is the correlation coefficient, which is a value between -1 and 1 indicating the strength of the association of the observed data for the two variables. A linear regression line has an equation of the form $Y = a + bX$, where X is the explanatory variable and Y is the dependent variable. The slope of the line is b , and a is the intercept (the value of y when $x = 0$).

2.2 Multiple Linear Regressions-

Multiple linear regression attempts to model the relationship between two or more explanatory variables and a response variable by fitting a linear equation to observed data. Every value of the independent variable x is associated with a value of the dependent variable y . The population regression line for p explanatory variables x_1, x_2, \dots, x_p is defined to be $\mu_y = \beta_0 + \beta_1 x_1 + \beta_2 x_2 + \dots + \beta_p x_p$. This line describes how the mean response μ_y changes with the explanatory variables. The observed values for y vary about their means μ_y and are assumed to have the same standard deviation. The fitted values b_0, b_1, \dots, b_p estimate the parameters $\beta_0, \beta_1, \dots, \beta_p$ of the population regression line. Since the observed values for y vary about their means μ_y , the multiple regression model includes a term for this variation. In words, the model is expressed as $DATA = FIT + RESIDUAL$, where the "FIT" term represents the expression $\beta_0 + \beta_1 x_1 + \beta_2 x_2 + \dots + \beta_p x_p$. The "RESIDUAL" term represents the deviations of the observed values y from their means μ_y , which are normally distributed with mean 0 and variance σ^2 . The notation for the model deviations is ϵ . Model for multiple linear regression, given n observations,

$y_i = \beta_0 + \beta_1 x_{i1} + \beta_2 x_{i2} + \dots + \beta_p x_{ip} + \epsilon_i$, for $i = 1, 2, \dots, n$. In the least-squares model, the best-fitting line for the observed data is

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² HOD, CS Department, Krishna University, Machilipatnam

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Gagandeep1, Punila Manochaz2, Rohit Daryal3, Amritpal Singh4

Chandigarh University, Mohali, Punjab, India.

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224. Experimental Investigation of External Burnishing Process Parameters Surface on Cylindrical Work Piece (gallery/224.%20sep%20jimte%20-%20cw.pdf)

Mr.Ashwin Joshi [1], Dr.Aravindrao Yadwad [2] Nisarg Bhandari [3]

1Visvesvaraya Technological University, Belgavi, Karnataka.

2The National Institute of Engineering, Mysore, Karnataka, 3Savitribai Phule Pune University, Pune.

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225. Biomass briquettes do not produce as much carbon dioxide as coal produces (gallery/225.%20sep)

Manasi Ghamande1, Balaji Padamwar2, GauravShilimkar3, Nikita Borole4,

Nikita Patil5, Ashwini Mamulwar6, Hemraj Jeure7

Vishwakarma Institute of Technology, Pune, India.

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ANALYSIS OF SIZE ESTIMATION TO PREDICT THE SOFTWARE EFFORT USING USE CASE POINTS METHOD

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Abstract:-In any object oriented design the basic build block is use case diagram, which are prepared at early stages of SDLC. The use case diagrams are considered to be useful in the process of accurate estimates for software development project. This paper gives detailed analysis of size estimation methods based on use case points. We proposed a method called Size Optimization Technique (SOT) which takes use case points as input and is based on multiple least-squares regression. This approach consists the phases of (1) deals with use case point estimation, (2) obtained correction coefficient by applying multiple least-squares regression, (3) obtained new estimation by applying proposed estimation equation. We compare the results of Size Optimization Technique (SOT) with UCP and RE-UCP models. The comparisons of tested projects show that SOT has significantly outperformed the existing UCP and RE-UCP size estimation techniques.

Keywords: Software effort estimation, RE-UC Points, UC Points

1. Introduction

Effort estimation of software development process plays an important role in the software Engineering field. Effort estimation is the process of estimating the number of business activities of workers as well as how much time it takes to accomplish the software development process. the reliable and accurate software development effort estimation has always been

encouraging for project managers [1]. There are several approaches which can be put in to practice to estimate software effort. The function point analysis (FPA) is the one of the approaches, which has an official technical standard in ISO standardization [2]. It is described as set of functions and the analyst should understand the system in great detail. The FPA analysis called function point analysis is considered as a black box, the results of estimates only the effort of each individual system function. The estimation influenced by the personal opinion of analyst. It makes this method unsuitable for comparing productivity in software development process. Function Point Analysis considers external input and outputs. The processes that send data in to the boundary are called external inputs. The external outputs considered data from external interface files and internal logic files. An estimation technique called use case point method for early stage estimation developed by Gustav Karner [3]. This method is based on use case diagrams which are commonly used as functional description of proposed software. There have been number of modification of original method, such as use case size points [4], extended use case points [6], adapted use case points [5], transaction path analysis [7]. In order to improve the efficiency effort estimation at the early stage of development, this research work concentrates on use cases for the purpose of estimation to identify refined model. The rest of the paper gives an insight view of methodology used in section 2. Section 3 shows experiment results and discussed the



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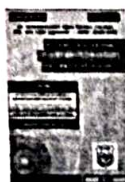
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The Influence of Capping Agents on Structural and luminescence
Properties of CdS Nanoparticles

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The Influence of Capping Agents on Structural and luminescence Properties of CdS Nanoparticles

G. Ramalingaiah, K. Sunil Kumar, M. Ramanadha, A. Sudharani, R.P. Vijayalakshmi*

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Abstract: Cadmium sulfide nanoparticles were synthesized by using PEG, EDTA and PVP as capping agents by chemical co-precipitation technique at room temperature and as prepared samples were annealed at a temperature of 80°C. The powder X-ray diffraction (XRD) pattern revealed that CdS nanoparticles synthesized with PEG, EDTA and PVP as capping agents are in cubic phase with particle size in the range of 3-12 nm. From SEM images it was noticed that the nanoparticles with all capping agents are spherical in shape and agglomeration less in PEG capped nanoparticles. The EDAX spectrum confirms the presence of Cd and S atoms in samples with and without capping agents is in near stoichiometric ratio. Photoluminescence (PL) studies revealed emission at 490 nm and 620nm. For CdS without capping agent the peak intensity is less and then increases in the order of capping agents PEG, PVP and EDTA respectively. The chemical interaction and functional groups in CdS nanoparticles were identified by FTIR spectra. Strong interactions corresponding to the CdS nanoparticles were noticed from FTIR spectra. All samples with and without capping agents exhibited diamagnetism.

Keywords: without and with capped CdS nanoparticles, Co-precipitation method, Photoluminescence, XRD, and FTIR.

1. Introduction:

The recent trends in nanoscale semiconductors have much attention because of their low dimensional dependent, chemical, physical, optical and electrical properties. Among all the semiconductors, group II-VI based semiconductors (ZnS, CdSe, ZnO, CdS etc.) plays a major role. CdS is having great potential due to narrow bandgap around ~2.4 eV at normal temperature [1-4]. CdS is very much interesting material due to its many excellent physical and chemical properties and have numerous applications in multiple technological fields. With and without capping agents of CdS possess hexagonal wurtzite structure and cubic structure [5-8]. CdS nanoparticles are having many applications, for example in flat-panel displays [9], photovoltaic cells [10], nonlinear optical devices [11], light-emitting diodes [12-14], solar cells [15, 16], photocatalysis [17], field-effect transistors [18], X-ray detectors [19], Photo detectors [20], Chemical/biological sensors [21, 22], photoconductors [23], hydrothermal treatment [24], luminescence devices [25, 8], Hydrogen production [26], etc.,

Large number of defects on the surface has non radiative pathways for excited electrons, which has high influence on the luminescent property. By adding capping agents to the surface of the material reduces the defects and dangling bond density.

CdS nanoparticles have been synthesized in various methods like hydrothermal method, chemical co-precipitation method; sol-gel method, sonochemical method and solvothermal method etc., [27-31]. Among all these methods, we have chosen a simple chemical co-precipitation method to synthesize CdS and capped CdS (PEG, EDTA, and PVP).

Herein, we report the Morphology, structural, FTIR, photoluminescence studies and magnetic studies on CdS nanoparticles with and without capping agents.

2. Experimental and characterization techniques:

2.1. Preparation of CdS nanoparticles:

Cadmium acetate dehydrate [$\text{Cd}(\text{CH}_3\text{COO})_2 \cdot 2\text{H}_2\text{O}$] (99.5% Analytical grade) and Sodium sulphide (Na_2S) (Analytical grade), Polyethylene glycol (PEG), EDTA and Polyvinyl pyrrolidone (PVP) were used without additional purification. Deionized water is used as a solvent throughout the experiment.

CdS and Capped CdS nanoparticles were synthesized by the chemical method at room temperature. For all samples with and without capping agents the molarity was fixed at 0.2 M. Sodium sulfide solution was added drop wise to the aqueous Cadmium acetate solution, light yellow colour precipitate is formed. The final solution is magnetically stirred for 8 hours and the precipitate is washed with deionized water and ethanol for several times. The obtained precipitate was dried at 80 °C for 10 hours. In order to reduce agglomeration and to control the size of as prepared samples 2 ml of capping agents of PVP, EDTA and PEG are added to the final solution.

2.2. Characterization:

With and without capped CdS nanoparticles were analyzed by various characterization techniques. Surface morphology of the prepared samples was observed by scanning electron microscopy (SEM) and chemical composition by EDAX spectra. Structural properties were observed by X-ray Diffractometer with Cu-K α radiation with a wavelength of 1.5406 Å. The functional modes and elemental constituents of synthesized samples were studied by FTIR spectra. The luminescence properties were studied by photoluminescence spectra. The magnetization measurements were recorded by VSM (Vibrating sample Magnetometer) at room temperature with Lakeshore, 7410.

3. Results and discussion

3.1 Morphological studies:

The SEM images of the as prepared with and without capped CdS nanoparticles are shown in fig.1. From fig.1 it is clear that the morphology of capped CdS nanoparticles are uniform from that of the without capped CdS nanoparticles. The capped CdS nanoparticles are spherical in shape as compared without capped to CdS nanoparticles. PEG capped nanoparticles are less agglomerated compared to particles with other capping agents.



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INTELLECTUAL PROPERTY RIGHTS - A KALEIDOSCPIC VIEW

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Abstract

Intellectual property, very broadly, means the legal property which results from intellectual activity in the industrial, scientific and artistic fields. Countries have laws to protect intellectual property for two main reasons. One is to give statutory expression to the moral and economic rights of creators in their creations and such rights of the public in access to those creations. The second is to promote, as a deliberate act of government policy, creativity and the dissemination and application of its results and to encourage fair trading which would contribute to economic and social development. The following list of activities which are covered by the intellectual property rights are laid down by the World Intellectual Property Organization (WIPO); Intellectual property is important for a person or company to safeguard. Without proper safeguards in place, one company's ideas can be replicated by another company and used for their profit. Some legal issues can arise from IP, but as long a company is on top of the paperwork and has an attorney they can prevent most of the issues or fight them if necessary.

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1. Industrial designs
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3. Protection against unfair competition

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Ecology and Environmental Science: An Empirical Study

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ABSTRACT:

Ecology is the branch of biology that deals with the relationships of organisms to one another and to their physical surroundings or immediate environment. It deals with the interactions between organisms and their natural habitats. We (humans) are also a part of the ecosystem and dependent on it for our survival because we too are after all just one more species on this planet earth. The Environment is our basic life support system which provides the air for breathing, the water for drinking, the food for eating and the land for a living. It is collectively portrayed all the external forces and conditions, which influences the life, nature, growth and maturity of living organism, whereas 'Ecology' is the scientific analysis and study of interactions among organisms and their environment. Environmental science is an interdisciplinary academic field that integrates physical, biological and information sciences (including ecology, biology, physics, chemistry, plant science, zoology, mineralogy, oceanography, limnology, soil science, geology and physical geography (geodesy), and atmospheric science) to the study of the environment, and the solution of environmental problems. This paper gives an empirical study on the ecology and environmental science.

Keywords: Ecology, Natural habitats, Ecosystem, Environmental science, Mineralogy, Limnology

INTRODUCTION:

Ecology is essentially an interdisciplinary field incorporating biology, geography and geoscience (earth science). Ecology means study of biota, its surrounding environment and their interactions amongst themselves as well as their physical surroundings. The term ecology ("Ökologie") was coined in 1866 by the German Zoologist, Ernst Haeckel (1834–1919). It was derived in 19th century from the Greek word "Ökologie" meaning: οἶκος, "house", or "environment"; -logie, "study of". An organism's environment is made up of the living or biotic, and non-living or abiotic components such as Sunlight, Temperature, Precipitation, Water or moisture (Humidity), Soil or water chemistry (e.g., P, NH₄⁺) etc.,

Principle Steps of Ecology:

- Reception of energy
- Manufacture of organic food by producers
- Consumption of organic matter by consumers
- Decomposition to organic compounds
- Transformation of these compounds into suitable compounds for the nutrition of the producers

Ernst Haeckel gave the following statement originally in German language, which says; *"By occology we understand the science of economy of the domestic affairs of organisms. It enquires into the whole relation of animals with their inorganic and organic surroundings, and above all their friendly and hostile relations with such animals and plants*

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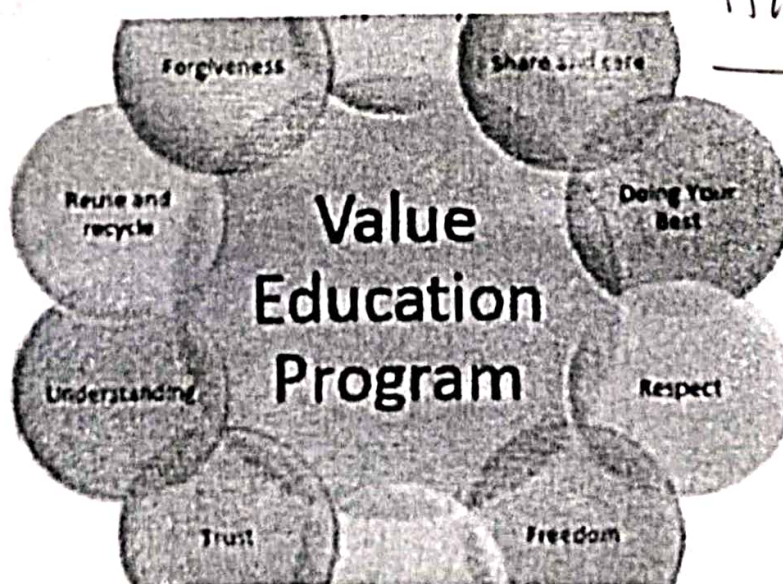
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PROFICIENCY IN PROFESSIONAL ETHICS AND VALUE EDUCATION: A SYNERGIC VIEW

History



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C. Baba Fakardhin

ABSTRACT: Esteem training enables the understudies to value the basic correspondences among 'Qualities' and 'Aptitudes' to guarantee continued satisfaction and success which are

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IMPACT OF QUIT INDIA MOVEMENT ON RAYALASEEMA - A REVIEW



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India.

ABSTRACT: After suppressing the mass upsurge of August-September 1942, the British showed a certain euphoria for some time, assuming that they had effectively removed the last vestige of the spirit of Indian.

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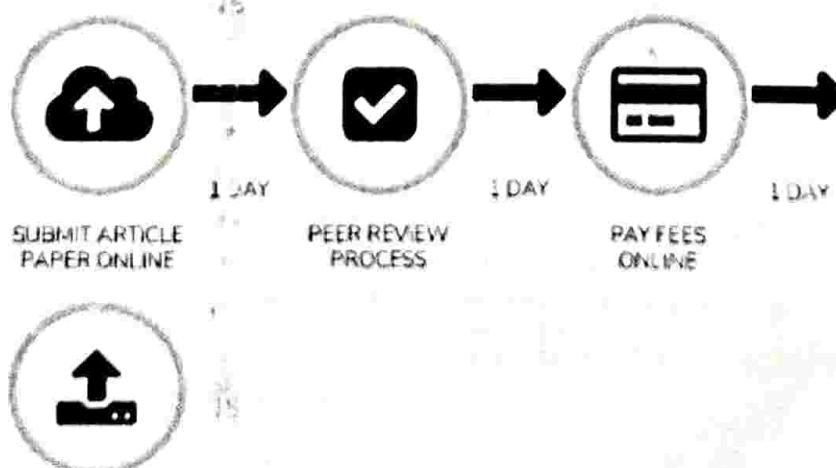
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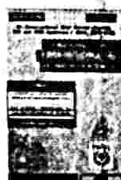
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G.CHANDRA SEKHAR, T. Gunasekhar, S.Mahalakshmi

 Antibacterial and antifungal activities of Boswellia ovalifoliolata stem
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Authors: G.CHANDRA SEKHAR, T. Gunasekhar, S.Mahalakshmi,
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ANTIBACTERIAL AND ANTIFUNGAL ACTIVITIES OF BOSWELLIA OVALIFOLIOLATA STEM BARK

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Abstract : This study was carried out with an objective to investigate the antibacterial and antifungal potentials of Stem bark of *Boswellia ovalifoliolata*. The aim of the study is to assess the antimicrobial activity and to determine the zone of inhibition of extracts on some bacterial and fungal strains. In the present study, the microbial activity of ethanolic extracts of stem bark of *Boswellia ovalifoliolata* was evaluated for potential antimicrobial activity against medically important bacterial and fungal strains. The antimicrobial activity was determined in the extracts using agar disc diffusion method. The antibacterial and antifungal activities of extracts (50, 100, 150 and 250 µg/ml) of *Boswellia ovalifoliolata* were tested against two Gram-positive—*Staphylococcus aureus*, *Bacillus subtilis* two Gram-negative—*Pseudomonas aeruginosa*, *E.coli*. bacteria. Two fungal strains—*Aspergillus Niger* and *Aspergillus oryzae*. Zone of inhibition of extracts were compared for antibacterial activity and nystatin and griseofulvin for antifungal activity. The results showed that the remarkable inhibition of the bacterial growth was shown against the tested organisms. The phytochemical analyses of the plants were carried out. The microbial activity of the *Boswellia ovalifoliolata* was due to the presence of various secondary metabolites. Hence, these plants can be used to discover bioactive natural products that may serve as leads in the development of new pharmaceuticals research activities.

Index Terms - *Boswellia ovalifoliolata*, *in vitro* antibacterial activity, antifungal activity, secondary metabolites .

I. INTRODUCTION

Antibiotics are important weapons in fighting bacterial infections and have vastly improved the quality of human life since their introduction. However, over the past few decades, these health benefits are under threat as many commonly used antibiotics have become less and less effective against certain illnesses, not only because many of them produce toxic element. Hence it is essential to investigate new drugs. Drugs derived from natural sources play a significant role in the prevention and treatment of human diseases. In many developing countries, traditional medicine is one of the primary healthcare systems.^[1,2] Herbs are widely used in the traditional medicine and their curative potentials are well documented.^[3] About 61% of new drugs developed between 1981 and 2002 were based on natural products and they have been very successful especially in the areas of infectious disease and controlling cancer.^[4] Recent trends, however, show that the discovery rate of active novel chemical entities is declining.^[5] Natural products of higher plants may give a new source of antimicrobial agents with possibly novel mechanisms of action.^[6,7] The effects of plant extracts on bacteria have been studied by a very large number of researchers in different parts of the world.^[8] Much work has been done on ethnomedicinal plants in India.^[9] Plants are rich in a wide variety of secondary metabolites such as tannins, terpenoids, alkaloids, flavonoids, glycosides, etc., which have been found *in vitro* to have antimicrobial properties.^[10,11] Herbal medicines have been known to man for centuries. Therapeutic efficacy of many indigenous plants for several disorders has been described by practitioners of traditional medicine.^[12] Antimicrobial properties of medicinal plants are being increasingly reported from different parts of the world. The World Health Organization estimates that plant extracts or their active constituents are used as folklore endemic medicine in traditional therapies of 80% of the world's population.^[13] The harmful microorganisms can be controlled with drugs and these results in the emergence of multiple drug-resistant bacteria and it has created alarming clinical situations in the treatment of infections. The pharmacological industries have produced a number of new antibiotics resistance to these drugs by microorganisms has increased. In general, bacteria have the genetic ability to transmit and acquire resistance to synthetic drugs which are utilized as therapeutic agents.^[14] In an effort to expand the antibacterial agents from natural resources. In the present study *Boswellia ovalifoliolata* belonging to Burseraceae family has been selected. In the Indian literature,^[15,16] reported to be useful against inflammations, joint pains, ulcers, arthritis, amoebic dysentery and diabetes has been suggested^[17] and it is widely used by tribal people to treat various ailments including ringworm and other fungal skin infections.^[18] *Boswellia ovalifoliolata* extract are known to be an important source of secondary metabolites, Indian people are using the leaves to treat inflammation *Boswellia ovalifoliolata* plant organs are notably phenolic compounds.^[19] *Boswellia ovalifoliolata* exhibited significant antimicrobial activity and showed properties that was mentioned in folkloric as broad-spectrum antimicrobial agents.^[20] Thus, *Boswellia ovalifoliolata* is well anchored in its traditional uses has now found wide-spread acceptance across the world. In the current investigation carried out, a screening of ethanolic extracts of



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Spectrophotometric Determination of Metolazone and in its Commercial Formulations

P Eswar kumar¹, G Chadra sekhar^{2*}, C Nageswara Reddy²

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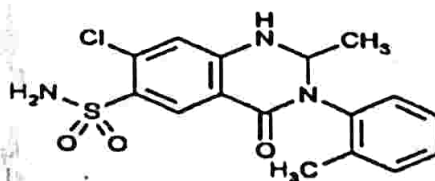
*csgandii3@gmail.com

Abstract: A simple, precise, rapid, sensitive and accurate spectrophotometric method have been developed for the estimation of Metolazone in pure form and its formulations and Spiked vegetables and water samples. This method is based on oxidative coupling of Metolazone with MBTH in the presence of Ferric chloride to form green coloured product with Maximum of 615 nm. The product obeyed Beer's law in the concentration range of 0.5 to 3 ml (5-30 μgml^{-1}) with molar absorptivity of 1.001×10^4 . Sandal's sensitivity 0.004945. The assay of results was found to be good agreement with label claim.

Keywords: Metolazone.. UV Validation.

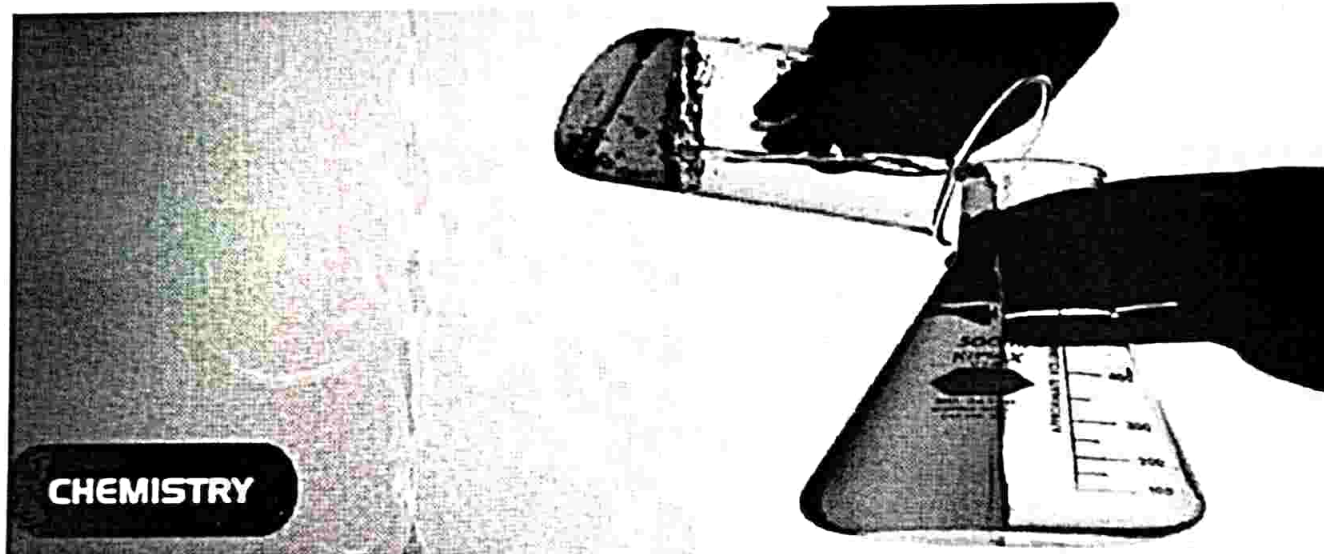
1. INTRODUCTION

Metolazone is chemically 7-chloro-2-methyl-3-(2-methylphenyl)-4-oxo-1, 2-dihydroquinazoline-6-sulfonamide [3] (Structure-1). Metolazone is an oral diuretic drug, commonly classified with the thiazide diuretics. It is primarily used to treat congestive heart failure and high blood pressure. Metolazone indirectly decreases the amount of water reabsorbed into the bloodstream by the Kidney, so that blood volume decreases and urine volume increases. This lowers blood pressure and prevents excess fluid accumulation in heart failure. The empirical formula for Metolazone is $\text{C}_{16}\text{H}_{16}\text{ClN}_3\text{O}_3\text{S}$ and the molecular weight is 365.84 grams.



Metolazone (Structure-1)

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PHASE EQUILIBRIA FOR BINARY MIXTURES OF NONANE
WITH OCTANE AND OCTANE WITH ORTHOXYLENE.



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PHASE EQUILIBRIA FOR BINARY MIXTURES OF NONANE WITH OCTANE AND OCTANE WITH ORTHOXYLENE, METAXYLENE AT 101.3 kPa

G. Chandra Sekhar*¹ and Ming-Jer Lee²

¹Department of Chemistry, Government Degree and PG College, Puttur, Chittoor, 517 583, (Affiliated to S V University, Tirupati), Andhra Pradesh, India.

²Department of Chemical Engineering, National Taiwan University of Science and Technology, 43 Keelung Road, Section 4, Taipei 106-07, Taiwan.

ABSTRACT

Isobaric vapour-liquid equilibrium boiling temperature measurements have been determined at 101.3 kPa as function of composition for the binary mixtures of nonane with octane and octane with orthoxylene and metaxylene by using a recirculation type apparatus. The experimental temperature, vapour and liquid composition (T-x-y) results were correlated with the NRTL and UNIQUAC models. All systems studied here behave like non-ideal solutions.

KEYWORDS

Nonane, Octane, Orthoxylene, Metaxylene, Isobaric, Vapour liquid equilibrium and Binary.

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INTRODUCTION

Experimental data of excess thermodynamic properties of liquids and liquid mixtures are of great fundamental and practical importance. These properties allow one to draw information on the structure and interactions of mixed solvents. The knowledge of phase equilibrium properties of liquid mixtures are fascinating and of great fundamental, practical importance, and industrial points of view. An accurate and complete knowledge of VLE data on the mixtures under consideration is necessary for the design of distillation equipment. In general, alkanes show a relatively low reactivity, because their C bonds are relatively stable and cannot be easily broken. Unlike most other organic

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ICP-OES Determination of Trace Metals in Groundwater of Proddatur area, YSR Kadapa dist., AP-India

Abstract:

Groundwater is the only drinking water source in the study area. Heavy metals may be considered as contaminants in the groundwater of this area due to dyeing and electroplating industries. Extreme amounts of heavy metals within drinkable waters may have a variety of short- and long-term health consequences for humans. There are no reports of heavy metals in any previous studies of this area. Ten groundwater samples were collected from different locations of Proddatur and analyzed for twelve trace metals namely arsenic, cadmium, manganese, copper, iron, mercury, chromium, nickel, lead, molybdenum, zinc and selenium using the Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES) method at trace levels. The proportion of elements in the examined sample determines the strength of the energy released. The results showed that 70% of samples contained Molybdenum, 30% of samples contained lead and copper which were reported within allowable bounds of WHO. The cadmium concentration in 40% samples was detected above World Health Organization - WHO guidelines. Cadmium is a very hazardous environmental and industrial waste adulterant. Consumable water containing high amounts of cadmium causes severe stomach irritation, resulting in vomiting, diarrhea, renal damage, osteoporosis, & osteomalacia. So, periodical monitoring and elaborate study on heavy metal pollution in groundwater are suggested.

Keywords: Groundwater, Heavy metals, Contamination, ICP-OES method, Plasma flow, Toxicity of cadmium.

Introduction

Water is among the most valuable resources on the planet, as it is required for life's existence and sustenance. As the world's population expands, so does the demand for water, putting more pressure on the groundwater supplies. Groundwater is currently overused in many parts of the world. As a result, water levels are dropping, ground subsidence is occurring, and ecological degradation is occurring, such as wetland drying out.

Because of its polarity & hydrogen bond, water has distinct chemical characteristics that allow it to disintegrate, absorb, adsorb, and hang a wide range of compounds. As a result, water in nature is not clean since it picks up pollutants from its environs as well as those human activities, animals, as well as other bioactivities. Ground water pollution is among the most pressing environmental issues today, and among the wide range of pollutants influence the water resources, dense metals are of significant concern due to their high toxicity perhaps at reduced concentrations as well as their proclivity to bioaccumulate within tissues of life forms overtimes.^{1,2}



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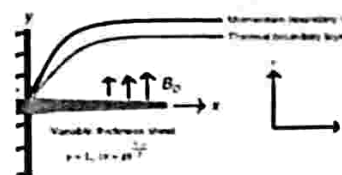
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Influence of viscous dissipation on MHD flow of micropolar fluid over a slendering stretching surface with modified heat flux model

K. Anantha Kumar, V. Sugunamma & N. Sandeep

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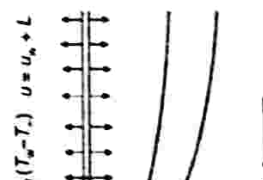


Influence of suction/injection on MHD Casson fluid flow over a vertical stretching surface

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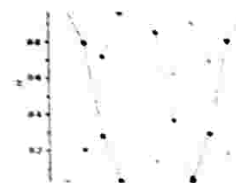


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Influence of suction/injection on MHD Casson fluid flow over a vertical stretching surface

A. C. Venkata Ramudu¹ · K. Anantha Kumar¹ · V. Sugunamma¹ · N. Sandeep²

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Abstract

In this paper, we analyzed heat transfer characteristics of a steady two-dimensional magnetohydrodynamic shear thickening Casson fluid across a vertical stretching sheet in the presence of variable heat source/sink. The impact of thermal radiation and velocity slip is also considered. With the suitable similarity transformations, the governing partial differential equations and the corresponding boundary conditions are transferred into ordinary ones and then solved numerically by using shooting and fourth-order Runge–Kutta methods. Simultaneous solutions are presented for the case of suction and injection. The effect of diverse non-dimensional parameters on distributions of velocity, temperature along with skin friction coefficient and the local Nusselt number is analyzed and presented through graphs and table for both suction and injection cases. Increase in Biot number and thermal radiation parameter supports to enhance the distribution of temperature. Escalation in the suction/injection parameter decreases both the distributions velocity and temperature in suction as well as injection cases are observed.

Keywords MHD · Casson fluid · Suction/injection · Radiation · Stretching surface · Velocity slip

Introduction

Non-Newtonian liquids are propagated and signified area of investigation because of its enthusiastic benefaction in medical, engineering, industrial as well as mathematics. Numerous models are pondered owing to nonlinear relation between stress and the rate of deformation. Non-Newtonian liquids have countless examples in daily life such as manufacturing of pliable, conservation of food, manufacture of newspaper and performances of dissimilar lubricants. Non-Newtonians are complex in nature due to their complexity. It is a hellacious work to explore a single model which depicts all of its properties. Ahmad et al. [1] studied a steady two-dimensional magnetohydrodynamic

shear thickening liquid over a wedge with Newtonian heating. Heat transfer characteristics on a steady, two-dimensional boundary layer flow of an incompressible electrically conducting Casson fluid past a rotating cone/plate in the presence of porous medium was discussed by Raju and Sandeep [2]. Baag et al. [3] discussed a steady 2D motion of an incompressible, magnetomicro-polar fluid in the area of a stagnated flow over a vertically heated plate with chemical reaction. A time-dependent MHD Cattaneo–Christov flow of Carreau fluid past a coagulated sheet was scrutinized by Kumar et al. [4]. Kumar et al. [5] studied the thermal characteristics of an incompressible steady MHD flow of Powell–Eyring fluid due to shrinking of wedge with irregular heat parameters.

Magnetohydrodynamic boundary layer flow due to stretching of a surface has been plentiful solicitations in the areas of trade and technology. Some major solicitations of this aspect are nuclear reactors, MHD bearings, oil probe, plasma studies and boundary layer controller in aerofoil. Zheng et al. [6] studied the MHD time-dependent motion over an inconstant stretched sheet with thermo-diffusion. The influence of chemical response and radiation on a steady, incompressible 2D MHD flow past a permeable

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YAl₃(BO₃)₄: Tm³⁺/Ho³⁺nanophosphors for blue-LED applications

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YAl₃(BO₃)₄: Tm³⁺/Ho³⁺ nanophosphors for blue-LED applications

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The YAl₃(BO₃)₄ nanophosphors activated with different concentrations of Tm³⁺/Ho³⁺ were synthesized by conventional solid-state reaction technique sintering at 1200 °C for 3 hours. Upon 359 nm near UV excitation, the YAl₃(BO₃)₄:Tm³⁺/Ho³⁺ nanophosphors emit intense blue luminescence through Tm³⁺:¹D₂ → ³F₄ (456 nm) and Tm³⁺:¹G₄ → ³H₆ (481 nm) transitions. A quenching in luminescence was noticed beyond xTm³⁺/yHo³⁺ (x = 1.0 mol% and y = 0.5 mol%) due to energy transfer at higher Tm³⁺ ions concentration through cross-relaxation mechanism. The experimental results show that the YAl₃(BO₃)₄:xTm³⁺/yHo³⁺ (x = 1.0 mol% and y = 0.5 mol%) nanophosphors excited at 359 nm near UV radiation could be the best choice to develop blue-LEDs.

(Received November 9, 2018; accepted June 14, 2019)

Keywords: Blue phosphors, Solid state reaction, Photoluminescence, LED applications

1. Introduction

The trivalent rare earth (RE³⁺) ions activated phosphors of high efficiency, low power consumption and environmental friendly nature play a key role in lighting technology as light-emitting diodes (LEDs), fluorescent lamps, flat plane displays, solid state laser and high energy radiation detectors etc. Many inorganic compounds such as aluminate [1], silicate [2], phosphate [3], borate [4], tungstate [5], molybdate [6] and vanadate [7] phosphors have been extensively studied owing to their efficient visible emissions under near ultra violet (UV) excitation.

It is well known that the generation of white light is possible in two different approaches. In the first approach, white light has been generated by combining a blue-LED chip with yellow phosphor like YAG:Ce, while in the second approach a near UV-LED chip has been combined with tri-colour (red/green/blue) phosphors [8-11]. The yttrium based phosphors act as good host materials due to their high thermal and chemical stability. The aluminate based phosphors show high fluorescence quantum efficiency due to strong UV absorption. The borate based phosphors are also exhibit excellent optical properties due to their non-linear optical properties and strong UV absorption. Thus, the YAl₃(BO₃)₄ phosphor is a good non-centrosymmetric host lattice for different RE³⁺ ions due to its wide isomorphous substitutions and non-linear optical properties.

The blue emitting phosphors play significant role in the design of white light emitting phosphors. Sulphide based phosphors emit an efficient blue luminescence with

limited lifetime due to the degradation of sulphide during its operation [12]. The commercial BaMgAl₁₀O₁₇:Eu²⁺ blue-phosphor has aging effect due to host lattice deformation and Eu²⁺ ions [13]. Hence, the synthesis of thermally and chemically stable blue-emitting phosphors is not easy. Among the RE³⁺ ions, the Tm³⁺ ions exhibit blue luminescence through ¹D₂ → ³H₄ (~450 nm) and ¹G₄ → ³H₆ (~480 nm) transitions. In our previous work, a blue emitting YAl₃(BO₃)₄:Tm³⁺ phosphor was synthesized effectively and characterized [14].

The present research work reports the synthesis of different concentrations of Tm³⁺/Ho³⁺ -doped YAl₃(BO₃)₄ phosphors for blue light applications. The morphological studies also carried out to study the agglomeration of particles. The aim of the present work is to investigate the structural and fluorescence properties of Tm³⁺ ions in the presence of Ho³⁺ and also the sensitization effect of Ho³⁺ ions on the luminescence of Tm³⁺ ions in YAl₃(BO₃)₄ nanophosphors.

2. Experimental techniques

2.1. Materials and method of preparation

Different concentrations of Tm³⁺/Ho³⁺ co-doped YAl₃(BO₃)₄ nanophosphors were synthesized by solid state reaction method using Y₂O₃ (99.99%, Aldrich-India), Al₂O₃ (99.9%, Aldrich-India), H₃BO₃ (>99.5% Merk-India), Ho₂O₃ (99.9%, Alfa Aesar-US) and Tm₂O₃ (99.9%,



PROFICIENCY IN PROFESSIONAL ETHICS AND VALUE EDUCATION: A SYNERGIC VIEW

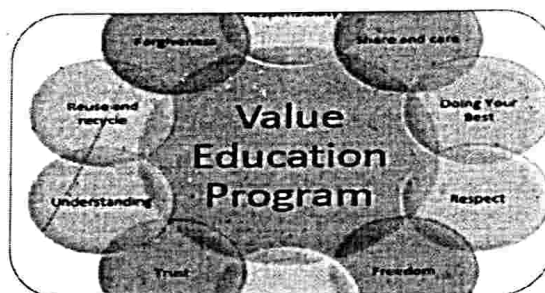
C. Baba Fakardhin

M.A., M.Phil.

Lecturer in History, V.R.S. Degree College, V.N. Palli, YSR Dist, A.P. India.

NEED OF VALUE EDUCATION

1. Esteem training enables the understudies to value the basic correspondingly among 'Qualities' and 'Aptitudes' to guarantee continued satisfaction and success, which are the center desires of every person.
2. Esteem instruction encourages the advancement of a Holistic viewpoint among understudies towards life and calling just as towards joy and thriving dependent on a right comprehension of the Human reality and the remainder of Existence. Such a comprehensive viewpoint shapes the premise of Universal Human Values and development towards esteem based living normally.
3. Esteem instruction features conceivable ramifications of such a Holistic comprehension as far as moral human lead, trustful and commonly satisfying human conduct and commonly improving connection with Nature.



IMPARTING VALUE EDUCATION

1. Imparting value education has to be conducted in a highly interactive mode - in the form of a meaningful dialogue through which the students are encouraged to probe, in their own right, into the propositions being made by the teacher as well as their present beliefs and assumptions. The role of the teacher is primarily that of a facilitator, systematically presenting the facts and facets of reality as propositions, enabling the students to analyze these propositions and verify these on the basis of their natural acceptance. Perseverance on the part of the teacher is required to facilitate this process. There is no need of argumentation, imposition or sermonization to convince the students.
2. Value education deals with the most fundamental issues concerning all human beings, namely, happiness and prosperity. The central theme of the course is to draw attention to the fact that right understanding about oneself and the rest of the existence and living in accordance with this understanding is the key to sustained human happiness and prosperity. There is an inherent interconnectedness, self-regulation and harmony at all levels of existence and this needs to be discovered by each individual. In fact, the whole existence is co-existence, of which the human beings are a constituent part. Care should be taken to correlate all the points of discussion to this central theme. Accordingly, there has to be a clear running thread which needs to be repeatedly pointed out to the students during the whole course. Basically, all human beings need to understand harmony in themselves, harmony with other human beings and harmony with the rest of the nature. All our thoughts, behavior and work are to be guided by this understanding.
3. It may be pointed out that human beings are being governed mostly by their pre-conditionings and sensory experiences and one is generally very hesitant to re-look at them. Usually, there is a strong

effort to justify or defend this stand. Thus, it requires a little effort in the beginning to screen through one's beliefs and assumptions. However, once a breakthrough is achieved, the subsequent journey is very pleasant and relieving.

4. Whenever a new concept is presented, there is normally a lot of apprehension in the minds of the audience about its workability, feasibility etc. In fact, even without grasping the essence of the concept, one tends to seek readymade solutions of the prevailing problems with the new concept. The right way to approach is to carefully grasp the complete concept, then verify it on the basis of natural acceptance and experience. Only after that, it is possible to work for its implementation in specific life situations.
5. The prime emphasis of imparting value education lies in enabling the student to refer to natural acceptance which is innate and invariant in every human being and forms the key to self-exploration.
6. It needs always to be kept in mind that all the discussions are finally correlated with our real life and need to get reflected in our thought, behaviour and work. This needs to be illustrated sufficiently through examples from our life and profession.

UNDERSTANDING VALUE EDUCATION

- All human beings continuously aspire for a happy life, a fulfilling and successful life, and the purpose of education is to provide adequate competence to actualize this aspiration.
 - For this, it is essential to understand- what is really VALUABLE for human being, and, what is really conducive to a happy and fulfilling life? - this is the VALUE domain. Then, one should know - How to actualize it? How to make it happen? - This is the domain of 'SKILLS'.
- Hence, there is an essential complementarity between VALUES' and 'SKILLS' for the success of any human endeavor.
- The subject which empowers us to comprehend 'What is Valuable' for human joy is called 'Esteem Education' (VE).
 - In this way, VE empowers us to comprehend our requirements and envision our objectives accurately and furthermore show the bearing for their satisfaction. It likewise evacuates our disarrays and logical inconsistencies and bring agreement at all dimensions.
 - The present training framework has moved toward becoming to a great extent expertise based. The prime accentuation is on science and innovation. Be that as it may, science and innovation can just give the way to accomplish what is viewed as profitable. It isn't inside the extent of science and innovation to give the ability of choosing what truly is important.

VE is an essential missing connection in the present instruction framework. Due to this insufficiency, a large portion of our endeavors may turn out to be counterproductive and genuine emergencies at the individual, societal and ecological dimension are showing.

Hence, there is a strong need to rectify this situation.

Basic Guidelines for Value Education

So as to fit the bill for any seminar on Value Education, the accompanying rules for the substance of the course are essential:

Widespread: It should be pertinent to all the individuals regardless of cast, belief, nationalities, religion, and so forth., for all occasions and locales.

Levelheaded: It needs to speak to human thinking..

Regular and evident: It must be 'normally adequate' to the person who experiences the course and there should be each arrangement in nature for its satisfaction. It should be experientially evident, and not founded on authoritative opinions, convictions or suppositions.

Widely inclusive: It needs to cover every one of the measurements (thought, conduct, work and acknowledgment) and levels (singular, family, society, nature and presence) of human life and calling.

Prompting congruity: The Value Education eventually is focused to advance agreement inside the person, among individuals and with nature.

CONTENT OF VALUE EDUCATION

What are Human Values?

Value of any unit in this existence is its participation in the larger order of which it is a part, eg. 1. Value of a pen is that it can write. Here writing is the participation of the pen in the bigger order in which pen, paper, human being, all are present. 2. Value of an eye is that it can be used for seeing. 3. Value of a spinach plant is that it gives nutrition to animals and humans.

What is the value of a human being?

This question implies what is the participation of a human being in the bigger order? That bigger order includes human beings, plants, air, water, soil, animals, birds etc. The value of human being is the participation of human being to ensure the continuity of harmony in that order. In order to understand human values, we need to study human being along with all that is there in the existence, and the role of human being in the relationship with each unit in the existence.

Scope of Study

As mentioned above, any course on value education must include:

- All dimensions-thought, behaviour, work & realization and
- All levels-individual, family, society, nature & existence.

Accordingly, the content of Value Education will be to understand myself my aspirations, my happiness and understand the other entities in existence vis-a-vis the human being, understand the goal of human life comprehensively, understand the innate inter-connectedness, order, the co-existence, the self-regulation and the recyclability in nature. It should encompass understanding of harmony at various levels, namely individual, family, society, nature and existence. And finally, it is to learn to live in accordance with this understanding by being vigilant to one's thought, behaviour and work.

Process of Value Education

- The process for Value Education has to be that of Self- exploration, and not of giving sermons or telling do's & don'ts. Whatever is found as truth or reality may be stated as a proposal and every student is to be encouraged to verify it on his/her own right.
- This process of Self-exploration has to be in the form of a dialogue - a dialogue between the teacher and students to begin with and within the student finally.

Self-exploration as the process for value education:

Meaning and Purpose of Self- exploration

1. It is a process of self reform through our own intuition and judgement.

Uddharedhathma nathmanaam aathmanamavasaadhayeth

Aathmyva hyathmanobandhurathmyva ripurathmanaha

2. It is a process of dialogue between 'what you are' and 'what you really want to be'.

It is a process of focusing attention on yourself your present beliefs and aspirations vis-a-vis what you really want to be (that is to say, what is naturally acceptable to you).

It is a process of discovering that there is something innate, invariant and universal in all human beings. This enables us to look at our confusions and contradictions within and resolve them by becoming aware of our natural acceptance.

3. It is a process of self-evolution through self-investigation.

It successively enables you to evolve by bridging the gap between 'what you are' and 'what you really want to be'.

4. It is a process of knowing oneself and through that knowing entire Existence.

The exploration starts by asking simple questions about yourself, which gives you clarity about your being, and then clarity about everything around you.

5. It is a process of recognizing one's relation with every unit in existence and fulfilling it.

It is a process of becoming aware about your right relationship with other entities in existence and through that discovering the inter connectedness, co-existence and order in the entire existence, and living accordingly.

6. It is a process of knowing ethical human conduct, human character and living accordingly.

It is a process of discovering the definitiveness of human conduct and human character and enabling one to be definite in thought, behaviour and work.

7. It is a process of being in harmony in oneself and in harmony with entire existence.

This process of self-exploration helps you to be in harmony with yourself, and with everything around.

Content of Self-exploration

1. **Desire/Goal:** What is my (human) Desire/Goal?

2. **Programme:** What is my (human) program for fulfilling the Desire?

The main focus of self-exploration is Myself- the Human Being. Basically, it should dwell on the following two key questions:

1. **What do I really want in life, or what is the goal of human life?**

2. **How to fulfill it? What is the program to actualize the above?**

In short, the above two questions cover the whole domain of human aspirations and human endeavor. Thus, they form the content of self-exploration.

Process of Self-exploration

Whatever is being presented is a PROPOSAL.

- Don't assume it to be true immediately, nor reject it without proper exploration.
- Verify it in your own right, on the basis of it being naturally acceptable to you.
- Not just on the basis of scriptures
- Not on the basis of equipment/instrument data
- Not on the basis of the assertion by other human beings.

Implications of Value Based Living

At the dimension of the individual - Happiness, harmony, satisfaction and joy in oneself, steadiness, dauntlessness and liberality in living of the person.

At the dimension of the family - Mutual satisfaction seeing someone, thriving in the family, sustenance of joint families, family as the structure square of societal request instead of law upholding bodies, regard for all without separation based on age, sexual orientation, station, race, cash, post, statement of faith, and so forth.

At the dimension of the Society - Fearlessness in the general public, all encompassing frameworks for training, wellbeing, equity, creation, trade and capacity, agreement between countries, world developing as a family.

At the dimension of nature - Co-presence of all units in nature, earth getting increasingly more appropriate for sustenance of all substances on the globe, equalization of seasons, legitimate advancement of material and pranic units through right accessibility of temperature, air, water, soil and other regular assets, in other words, a general human request.

COMPETENCE IN PROFESSIONAL ETHICS

It is important to understand that the only effective way to ensure professional ethics is through correct appraisal and systematic development of ethical competence in the professional (the human being). As the right understanding successively comes into our living through self-exploration and practice, it manifests in terms of the following competencies in the individual.

Clarity about comprehensive human goal: It's fulfillment through universal human order.

Trust in one self: in light of the correct comprehension of one self and the remainder of presence.

Commonly satisfying conduct: clearness and trust in moral human direct and its connection with supportable individual just as aggregate bliss and thriving.

Regularly fulfilling behavior: clearness and trust in good human direct and its association with supportable individual similarly as total joy and thriving. **Commonly fulfilling behavior:** clearness and trust in good human direct and its association with supportable individual similarly as total delight and flourishing.

In the light of the over, one gets the capacity to distinguish and create suitable (human amicable and eco-accommodating) innovations, generation frameworks and so on.

Every single one of us may investigate and dissect one's very own present status as far as the previously mentioned capabilities and appropriately continue with self-development through persistent self-investigation and practice.

Salient Unethical Practices in the Profession at Present

In the present system, there is no tangible mechanism to develop the ethical competence of the individual and the dominating worldview is primarily profit-oriented. Let us have a critical look at the contradictions and dilemmas because of the prevailing world view in profession today.

- Corruption at various levels and in different forms
- Tax-evasion and misappropriation of funds
- Unethical nature of advertisements and sales promotion
- 'Cut-throat' competition
- Adulteration and spurious production
- Exploitation at various levels
- Negligence and disregard for environment
- Promotion of unsustainable technologies

CONTRADICTION AND DILEMMAS

Using the above examples, bring out the salient contradictions and dilemmas existing today. To understand the above situation correctly, it is necessary to appreciate that the present ethos guiding all our activities is primarily profit-maximization; wealth maximization, comfort maximization and all the systems and efforts are influenced by it. By now it should have been clear that such an ethos is not conducive to continuous human happiness and prosperity. In an over-arching environment of profit maximization, to expect ethical conduct by individuals is a contradiction in terms. Hence, it gets thwarted time and again. Without rectifying our world view, we are trying to ensure ethical conduct through checks and controls, through oaths, through punishments and rewards etc. But such a remedy proves untenable, frustrating, and full of dilemmas. Hence, a change of ethos, a change of perception is the prime requisite, which is core message of this course. The prime need is to develop the ethical competence through right understanding.

To sum up, the triggering of the process of self-exploration, indications of perceptual transformation, decrease in confusion and contradictions, and increase in self-confidence through

practice based on the right understanding depict the real success of the impart of value education and competence in professional ethics.

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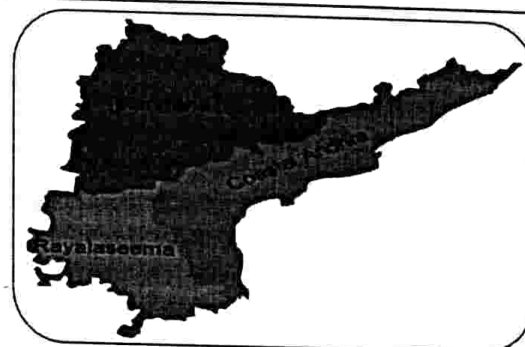


IMPACT OF QUIT INDIA MOVEMENT ON RAYALASEEMA - A REVIEW

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ABSTRACT :

After suppressing the mass upsurge of August-September 1942, the British lapsed into euphoria for some time, assuming that they had effectively removed the Congress from the centre of Indian politics. In a state of disarray and disorganization, the Congress was thought to have been rendered incapable of posing any threat to the Government. As early as 10th September 1942, Prime Minister Churchill declared in the British Parliament that the Congress party does not represent all India. It does not represent the majority of the people of India. It does not even represent the Hindu masses. It is a political organization built around a party machine and sustained by certain manufacturing and financial interests. Ninety million Muslims, fifty million depressed classes or untouchables, and ninety-five million Indians of Princely India, Churchill contended, were fundamentally opposed to the Congress. He included the Christians and the Sikhs, too, in this category of anti-Congress elements. The Congress as such was a non-representative and powerless organization which could do no harm. That the situation in India was normal was proved by the fact that 140,000 new recruits had joined the army during the time of the disturbances.

KEYWORDS : political organization , economic necessity , situation in India.

INTRODUCTION

Not many Indians resigned to their jobs. But it does not mean that they gave staunch support to the Government. The economic necessity compelled them to stick to their jobs. Some of these officials gave support by letters their typewriters, official envelopes, service stamps and similar other articles for the purpose of despatching "Quit India" notices to the British officials and minatory letters ("Do or Die") to Indian officials. Some of these originated from New Delhi (Karol Bagh) itself. The Government even suspected that some railway employees were involved in sabotage activities. It had indeed detected in New Delhi two cases of internal sabotage- one in the Record Room of the South Block of the Secretariat, and the other in the Supply Accounts office in the Assembly Chamber.

Village teachers, doctors serving in the rural dispensaries, station masters of the railways, and officials in the postal department did not extend full co-operation to the Government in suppressing the disturbances. Particularly, in Bihar, Midnapore (Bengal), Satara (Bombay) and Eastern U.P., the constabulary, the magistracy and the revenue officials were very much affected. In Bombay, many police Patels resigned.

Although at the national level the ability to galvanize rebellion was limited, the movement is notable for regional success especially at Satara in Maharashtra, Talcher in Orissa, and Midnapore in Bengal. In Tamluk and Contai subdivisions of Midnapore, the local populace was successful in establishing parallel governments, which continued to function, until Gandhi personally requested the leaders to disband them in 1944. A minor uprising took place in Ballia, now the easternmost district of Uttar Pradesh. People overthrew the district administration, broke open the jail, released the arrested Congress leaders and established their own independent rule. It took weeks before the British could reestablish their authority in the district. Of

special importance in Saurashtra (in western Gujarat) was the role of the region's 'baharvatiya' tradition (going outside the law) which abetted the sabotage activities of the movement there. In rural West Bengal, the Quit India Movement was fuelled by peasants' resentment against the new War taxes and the forced rice exports. There was open resistance to the point of rebellion in 1942 until the great famine of 1943 suspended the movement.

The Bengal famine of 1943 struck the Bengal Province of pre-partition British India during World War II following the Japanese occupation of Burma. Estimates are that between 1.5 and 4 million people died of starvation, malnutrition and disease, out of Bengal's 60.3 million populations, half of them dying from disease by December 1943. As in previous Bengal famines, the highest mortality was not among very poor groups, but among artisans and small traders whose income vanished when people spent all they had on food and did not employ cobblers, carpenters, etc. The famine also caused major economic and social disruption, ruining millions of families.

Lack of statistics was an important cause of the failure to recognize and tackle the famine. It was known by administrators and statisticians well before the famine that India's agricultural production statistics were merely rough estimates. Supplies from other countries any imports would have had to come from Australia, North America or South America. Some supplies from Australia entered the region. The main constraint was shipping. The Battle of the Atlantic was at its peak from mid-1942 to mid-1943, with submarines sinking so many ships that the Allies were on the verge of defeat. So, shipping could not be spared for India.

The Famine Inquiry Commission (1945) document identities a large number of administrative, civil, policy and military policy failures. Significantly, no other famine-struck country has published such criticisms of its own government's actions. In December 1942 there was a shortage in Calcutta itself. Therefore, the government focused on getting supplies to Calcutta by trying to buy surplus stocks in the region. The quantities that District Officers were able to locate and purchase were considered too small to meet the famine. So, the Government introduced free trade in rice in Eastern India, hoping that traders would sell their stocks to Bengal. This measure also failed to move large stocks of rice to Bengal.

The Indian Army and allied troops acted only after Wavell became Viceroy and got permission from the Bengal Government. They had vehicles, fuel, men and administrators, which the civil authority did not. So, they were much more effective than the civil authority in getting food to the starving from outside Calcutta. The distribution was difficult and continued for five months after the November/December 1943 crop was harvested. However, they did not have much food to distribute. During the course of the famine, 264 thousand tons of rice, 258 thousand tons of wheat and wheat products, and 55 thousand tons of millet were sent to Bengal from the rest of India and overseas in order to relieve the intensity of famine. One ton of rice feeds 5.75 people for a year at normal consumption, perhaps 8.2 at emergency survival rates. Various guesses were that the rice production in Bengal was 1.2 - 2.5 million tons below the ten-year average.

Food prices were high in mid-1942, reflecting the belief that India was in deficit. They rose sharply when the cyclone destroyed a quarter of Bengal's rice crop, and evidence of shortage elsewhere in India and elsewhere in the region emerged, and they continued to rise sharply as the famine bit. Repeated efforts to 'break the Calcutta market' and reduce prices by dumping grain on the market failed, the quantities of grain available for intervention were minuscule in relation to the shortage. There was the normal seasonal speculation which puts up prices, forcing the population to reduce consumption and so spread what is available throughout the year (as economists from Adam Smith have pointed out). The high prices determine who is to die, the poor, rather than increase the number of deaths.

Madras Government Control on Kerosene

As a result of the severity of the Second World War and as a result of the active participation of the masses during the Quit India Movement, the people also faced certain inconvenience due to the short supply of the essential commodities. For example, the people were double to procure the required Kerosene like the pre-1939 War period. Only fifty per cent of the required Kerosene was available for distribution. The Retail merchants in order to gain more profit began to store the available Kerosene without selling the stock to the needy people. So, even the Kerosene which was supplied by the government was not available to the required people. The British government in order to discourage black marketing of the Kerosene, control

was imposed on the Kerosene trader. The Wholesale and Retail dealers have to register with the Collector. Otherwise, they are not permitted to trade in Kerosene business.

The required Kerosene for the distribution Commoner, Public Organisations, Hospitals, Student Hostels etc. will be decided by the Collector. The Raising Prices also will be fixed by the Collector. The Retail Price will be decided by the Taluk Advisor Committees.

Famine in Rayalaseema during the Quit India Movement

Due to the short supply of rice, the ration was cut by one third of the supply. As a substitute to rice, the Director Health Department, Madras Government have advised the people to use Jowar and Ragi. In Rayalaseema famine condition was very severe. In Kurnool common mans Millets are not available. In the middle of the 1942 Millets were sold of Rs.01/- for 15 Kgs. But, by January 1943 for 01 Rupeeonly 7 ½ Kgs Millets are available only. Even 7 ½ Kgs are not available, Officers raided on shops and handover from the traders and releasing for common people. These officers fix the rationing in sales of the Millets for each Household. Every day ½ Kg Millets need for every person. But Officers release only ¼ Kg only. During the Quit India Movement there were drought conditions in 1943 in Rayalaseema region. The common man's foods i.e., the Millets were in short supply. There was rationing in the supply of millets to the people. In Kurnool Jowar was in short supply. The weaver was reasonable to weave the cloth because of the short supply of the raw material. The people began to suffer because the ruler helped to be fragrances. Had the Government was cautious, the people may not face many problems. In Kurnool, the shops were looted twice. On 31st March 1943, 40 members were arrested because of their involvement in the robbery. Another looting took place at Kodumuru village during the weekly shandy was held. The traders of textiles and Rice, Cloths sellers suffered heavily. The police restored law and order situation after these incidents took place. Those who involved in the looting incident were tried. 28 people were tried and 22 were arrested and three months jail sentence was awarded.

During this period in 1942, the Kurnool district was facing a severe famine. Crops failed in almost all areas. The war situation caused to increase price level and number of agricultural Labourers turned jobless. Apart from this the Government collected war fund and revenue tax from the Ryots. In Adoni division most of weavers and working class could not find work. They were dying due to the provision of one time meal per day. These people submitted a petition to the Collector under the leadership of M. Lakshmana Singh. Famine condition in the district made the working class resort to robbery and plunder. The Kurnool District Ryot Sangh Secretary G. Rami Reddy recommended the Kist remissions in the District and submitted notices to the Government. The District Famine Relief Committee met under the Presidentship of Nayakanti Sankara Reddy on 22nd March, passed resolutions for full remissions according to crop pattern and postponement of the payment of Kist to next year. In response to these pressures from Ryots and Famine Committee, the Government gave remission in 165 villages according to their crop yielding, the deducted remission was Rs.2,16,000/- in the District.

Coins Problem during the Quit India Movement in Rayalaseema

During the Quit India Movement period, the wealthy persons who procures more Coins and exchange the currency for more rate was arrested at Penugonda in Anantapur District. In one shop 685 coins were found. In this period whoever kept the coins without needy, the British government imposed fines and imprisonment.

Methods Adopted By the Government to Suppress the Quit India Movement

The British swiftly responded with mass detentions. Over 100,000 arrests were made, mass fines were levied and demonstrators were subjected to public flogging. Hundreds of civilians were killed in violence many shot by the police army. Many national leaders went underground and continued their struggle by broadcasting messages over clandestine radio stations, distributing pamphlets and establishing parallel governments. The British sense of crisis was strong enough that a battleship was specifically set aside to take Gandhi and the Congress leaders out of India, possibly to South Africa or Yemen but ultimately did not take that step out of fear of intensifying the revolt. The British Government tried to screen off the happenings in India by a wholesale attempt at muzzling the press. Orders against publication of anything but official version of all factual news, prohibition of the adverse comments on the measures adopted by the

Government to deal with the movement, censorship at the very source of news etc., were some of the glaring attacks on the liberty of the Press in India. Meanwhile, every day the heavily censored news made the whole Press look exceedingly comical, not to say fraudulent.

The officers appointed to scrutinize news relating to the Congress movement and disorders were provided with guidance notes. The general aim was to allow the presentation of a correct objective account of what had happened omitting anything likely to incite the public to subversive activity or sabotage, to convey suggestions or instructions for act of violence, to excite popular feeling against the Government and the measures taken by them, to arouse apprehensions among the public or Government servants, or in any other way to arrest the restoration of confidence, or to prolong the disorder. Regarding the arrest of persons, it stated that 'name of persons arrested for offences in connection with the disorders or for suspicion of being implicated in them can be passed for publication in the local Press. In the case of obscure individuals and of persons courting arrest en masse discretion should be left with the scrutinizing body but such news should not ordinarily be passed'. However, it admitted no objection to the publication of the numbers arrested or the nature of the offence. With regard to the news connected with the jail condition, the scrutinizing officers were informed that reports purporting to describe conditions under which persons imprisoned or detained, should not be in such a manner as to glorify or make martyrs of them. In connection with the speeches, statements and slogans, the guidance note stated that slogans of a political nature need not be disallowed as such, but should not be passed. Reports of trials of persons arrested in connection with the disorders may be passed for publication but details of the proceedings should be subject to the same restrictions as on other news items. On repressive action, the guidance note stated that 'allegations of undue severity in the methods employed in dealing with disorders are clearly not capable of speedy verification and as such the Press should be informed that alleged incidents of this kind should be brought to the notice of the proper authorities who are as interested as the public in the maintenance of discipline. On programme of unlawful bodies designed to excite the public to subversive activities or sabotage.

Thus, compulsory Press scrutiny gave Government officials power to control at every stage not only the publication but even the character of factual news. The fact that newspapers found it difficult to perform their duties to the public, increased unrest throughout the country. Pre-censorship in Madras Province was brought into force on 26th September 1942 superseding the system of precensorship of provincial telegrams and the registration of correspondents. When compared with other provinces the precensorship had been comparatively rigorous in the Madras Province, because a ban was imposed on news relating to setting fire to post boxes, sabotage directed at railways, cutting of telephone and telegraph wires etc. The Government of Madras called for a special meeting of the Madras Press Advisory Committee (M.P.A.C.) on 14th November 1942 to consider the method of press control and system of pre-scrutiny of news which was then in force in Madras Province. George Boag, Advisor to the Government of Madras, met the members of the M.P.A.C. to consult them on the question of the suitable method of press control which should be devised and substituted for the system of pre-scrutiny of news connected with the mass movement which was then in force in the Madras Province. The Committee desired the Government to accept and to give effect to the resolution passed on 5th October 1942, by the All India Newspaper Editors Conference in Bombay. The Government of Madras decided to take action as recommended by the resolution. So it stated that 'Newspapers will be free to give publicity to objective reports of incidence in connection with the mass movement or disturbances'. The restrictions in regard to the publication of certain categories of matter which the All India News Paper Editors' Conference had agreed to, have been issued by the Government of Madras as press instructions in order to give them proper sanction. And in exercise of the powers conferred by clause (b) of sub rule (1) of rule 41 of the Defence of India Rule and in supersession of the orders issued on 26th September 1942, the Government of Madras on 16th November 1942 warned the printers, publishers and editors of newspapers against printing or publishing any newspaper or other document, any matter of the nature specified below unless it has been officially announced by the Government of Madras.

1. Reports of interruptions of any kind to road and railway communications.
2. Reports of acts of sabotage or attempted sabotage directed at railways, military or civil aerodromes, power houses, water supply installations, telegraph and telephone lines, or any other public utility service.
3. Reports of strikes or interruption of work in factories engaged in producing material required for military purposes.
4. Anything which is likely to incite the public to subversive activity.

- Anything which conveys suggestions or instructions for illegal acts.
- Anything which is an exaggerated report or on unfounded allegation regarding the excessive use or misuse of their powers by the police, troops and other Government servants or the treatment and condition of detainees or prisoners and
7. Anything which retards the restoration of the public sense of security.

The Government of Madras also stated 'deliberate contravention of these press instructions on the part of any newspaper will be dealt with by the government of Madras in consultation with the Madras Press Advisory Committee. In spreading the gospel of the Quit India Movement, *Sri Sadhana Patrika*, played a key role under the Editorship of Pappuri Ramacharyulu. It created a political awakening of the people of Chittoor district. The paper circulation was stopped due to the arrest of P. Ramacharyulu by the government. It helped not only in the growth of the political consciousness but also highlighted the need of social justice had been emphasized. By the propagation of the newspapers the movement spread to rural areas also. As a result the peasants and artisans also actively participated in the movement. They indulged in destruction of the communication system at many places and also advocated the non- cooperation with the British authorities.

Another method adopted by the Government to suppress the underground activities during the Quit India Movement was the enforcement of the Collective Fines Ordinance. The Collective Fines Ordinance XX of 1942 empowered the Provincial Governments to impose a collective fine on the inhabitants of any area who were involved in the commission of offences which prejudicially affected the defence of British India or the efficient prosecution of the War. Interruption of communication was beyond doubt an offence of this nature and the Government called for recommendation of the District Magistrate in all cases where this penalty could be imposed appropriately. The Government also emphasised the need for promptitude as well as sternness in dealing with cases arising out of these disorders. The Government of Madras also made it clear that if the existing number of Magistrate was insufficient to deal with all cases promptly, District Magistrate should at once apply for sanction for additional courts. Noticing the extensive damage done to Government buildings during the Quit India Movement, the Collective Fines Ordinance was amended so as to make it applicable to offences involving the destruction of Government property. Collective fines were imposed on the villagers in Rayalaseema for defying the orders of the government. The government collected fines from KammaKottala (Rs.20,000) and Kottalapalle (Rs.5,000), a total of Rs.25,000/- from the two hamlets of Anantapur District, Agadur, Vemula and Palagiri (Rs.1,600), Animula, Veerappanayunipalle and Thummalapalli (Rs.800), Alamkhanipalle (Rs.500), a total of Rs.2,900/- from seven villages of Kadapa District, Moolasagaram (Rs.500) and Noonepalle (Rs.500), a total of Rs.1,000/- from the two villages of Kurnool District. Stern measures were taken to suppress the disturbances, by awarding punishment of death or whipping to offenders. Section 5 of the Penalties Enhancement Ordinance, 1942 provided death or whipping for the offence of sabotage under rule 35 of the Defence of India Rules. The District Magistrate and Commissioners of Police were requested to instruct their public prosecutors to press for death sentences against the ring leaders in serious cases of sabotage especially in those involving danger to life. It also stated that since no hard and fast rules could be laid down, District Magistrate and Commissioners of Police were to use their discretion according to the merits of each individual case. The Government also took precautionary measures to prevent the participation of the Government servants in the Quit India Struggle. On 5th September 1942, all Heads of Departments were informed that if they received any letters of resignation from government servants under their administrative control on account of the Civil Disobedience Movement, they should on no account accept the resignation. If the Government servant, after tendering his resignation, absent himself from duty, he should at once be dismissed, with consequential loss of pension and forfeiture of government contribution if any to his Provident Fund.⁴⁴ The government of India proposed to follow this policy in respect of all officers in the central services, and requested the provincial Governments to adopt the same policy in respect of officers under their control.

But, on the other hand, the Government of India on 9th September 1942 stressed the desirability of granting generous compensation to dependents of the police and other officials murdered in the execution of their duties during the disturbances connected with the Quit India Movement and to give wide publicity to such grants. In their letter, they urged, "in all cases of officials killed, their widows should be granted an immediate suitable lumpsum, spending settlement of their pension and a pension with the least possible delay on the highest possible scale". It also decided to give wide publicity to the grant of those lumpsums.

Cash awards and medals were also given to police officers and other persons for their meritorious service in connection with the Quit India Movement.

Police atrocities perpetrated against the people were severe. Many people were subjected to physical suffering for their participation in the Quit India Movement. Often false charges were made against innocent men, and many Congressites were pestered by the C.I.D. men. In order to extract information from the suspected people the police authorities often used third degree methods. When prisoners reached the toilet, one among them, had to tell the police man either to remove their chain or to remove their undergarment which irritated the police man. Such was the suffering these people had undergone for attaining independence. Often they had to fight against the jail authorities. The sanitary fittings too were very poor. Rayalaseema region prisoners were also affected by poor medical aid and very poor food, which spoiled their health very much. All these merciless atrocities were done to them for trying to regain independence for India from the British Rulers. The Government also imposed restrictions on the conduct of interviews, correspondence and newspapers given to Congress men detained in connection with the Civil Disobedience Movement were allowed to receive and send the ordinary number of letters permitted by the Security Prisoner's Rules, (S.P.R.) provided they were confined to letters to or from members of their families and were limited to personal and domestic matters. In this way many letters were withheld and several representations were made by detainees. Unnecessary delay too was made in the delivery of letters and many requests were made for the prompt dispatch and delivery of outgoing letters.

Restrictions imposed on the interviews were such that only one interview a month with members of their family i.e. Wife/ husband, father, mother, brother, sister, son or daughter or any 'in-laws' of such relationships was allowed. Applications for interviews other than those mentioned had to be forwarded to Government for orders. Discussion of only personal matters was allowed during the interview. It was also announced that there shall not ordinarily be more than three visitors present (excluding children under 12 years) simultaneously at any interview.⁵¹ Interviews between detainees belonging to one family and confined in jails in different places were not allowed.

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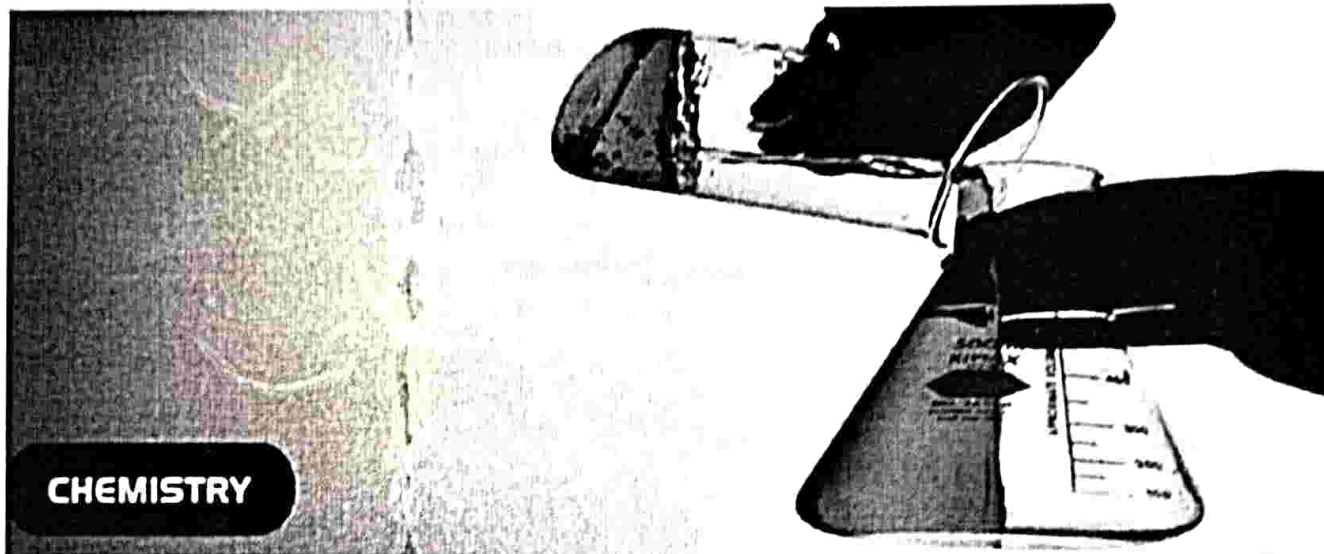
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VALIDATED SPECTROPHOTOMETRIC METHOD FOR THE DETERMINATION OF DOXAZOCIN IN PURE AND IN ITS DOSAGE FORM

G. Chandra Sekhar^{*1}, V. Prabhakar Rao¹, P. Eswar Kumar²

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ABSTRACT

A simple, precise, rapid, sensitive and accurate Spectrophotometric methods have been developed for the estimation of Doxazocin UV in pure form and its pharmaceutical formulations based on oxidative complexation reaction UV with 1,10- phenanthroline reagent at P^H - 4 which is extractable at 510nm. Beer's law is obeyed in the concentration range 1-6ml (10 to 60 μ g ml⁻¹). The developed method was applied directly and easily for the analysis of the pharmaceutical formulations. RSD was found to be 0.5318 and recovery 99.77 % respectively. The method was completely validated and proven to be rugged. The interferences of the ingredients and excipients were not observed. The repeatability and the performance of the proved method were established by point and internal hypothesis and through recovery studies.

KEYWORDS

Spectrophotometry, Doxazocin, 1, 10-phenanthroline and Oxidative complexation.

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INTRODUCTION

Doxazosin [(4-amino-6, 7-dimethoxy-2-quinazolinyl)-4-(1, 4-benzodioxan-2-yl-carbonyl) piperazine] is a postsynaptic α 1-adrenoreceptor antagonist used either alone or in combination with diuretics or α 1-adrenergic-receptorant agonist for the treatment of hypertension and benign prostatic hyperplasia. It is structurally related to prazosin Figure No.1. The literature survey of Doxazosin as follows. Babmoto *et al*¹, Eliot *et al*², and Carlson *et al* and Bailey *et al*³, has to Report the analysis of pharmacokinetics and effect on blood pressure of Doxazosin in normal subjects and patients.
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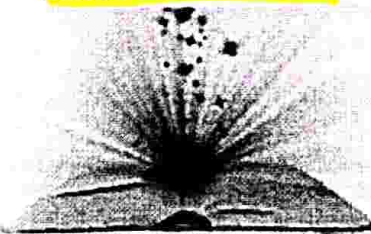


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Synthesis and Antimicrobial Activity of Novel Urea/Thiourea Derivatives

T. Narasaiah, G. Chandra Sekhar* and V. Prabhakara Rao

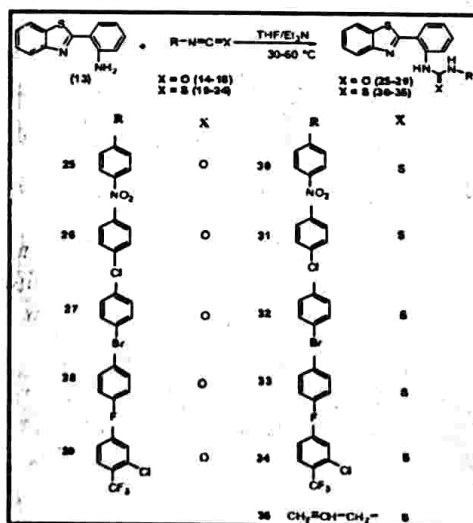
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ABSTRACT

Synthesis of novel urea and thiourea derivatives has been accomplished by reacting 2-(benzo[d]thiazol-2-yl) aniline with various isocyanates and thio isocyanates. Structures of all the newly synthesized compounds were characterized by IR, ¹HNMR, ¹³CNMR, mass and elemental analysis. Their structures were established by analytical and spectral data. All the newly synthesized compounds were screened for their antibacterial activity against gram positive bacteria such as *Staphylococcus aureus* (ATCC-29737) and *Bacillus subtilis* (ATCC-6633) and the gram-negative bacteria such as *Escherichia coli* (ATCC-2343) and *Pseudomonas aeruginosa* (MTCC-1034) using cup plate agar diffusion method. Synthesized compounds exhibited high antibacterial activity against both gram positive and gram-negative strains. Compounds 28, 33 exhibited good antifungal activity, remaining title compounds exhibited moderate antibacterial and antifungal activities. All the newly synthesized compounds exhibited promising antimicrobial activity.

Graphical Abstract



Synthesis of urea and thiourea derivatives

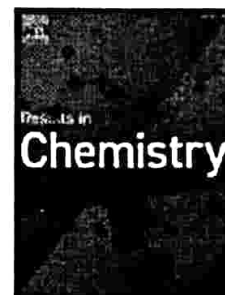
Keywords: Urea, Thiourea, Antibacterial activity, Antifungal activity.



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Abstract

Experimental measurements of isobaric vapour, liquid equilibrium boiling point temperature were determined at 101.3 kPa as function of concentration for the two mixtures of hexane with orthoxylene, metaxylene and nonane with hexane by using a continuous recirculation type apparatus. The measured temperature, vapour and liquid concentration (T-x-y) results were correlated with the NRTL and the UNIQUAC models. Each binary mixture system has passed the thermodynamic consistency test of Herington. The activity coefficient values (γ) are greater than unity in three systems for all measurements. The systems studied in the present investigation are hexane with orthoxylene, metaxylene and nonane with hexane show relatively larger deviations from Raoult's law. All the systems studied here behave like non-ideal solutions. All binary systems investigated were found to be nonazeotropic in nature.

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Hydride affinities of cationic main-group element hydrides across the periodic table

Eva Blokker, Caroline G.T. Groen, J. Martijn van der Schuur, Auke G. Talma, F. Matthias Bickelhaupt
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Abstract

Abstract

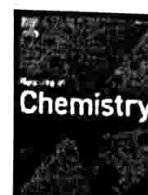
We have quantum chemically explored the gas-phase hydride affinities (HA) of archetypical cationic Lewis acids across the periodic table, using relativistic density functional theory (DFT) at ZORA-BP86/QZ4P. One purpose of this work is to establish an intrinsically consistent set of values of the 298 K HAs of all cationic main-group-element hydrides (XH_{n-1}^+) in which we have varied the central atom X along groups 14–17 and periods 2–6. Our main purpose is to understand the emerging trends in HA values in terms of the underlying bonding mechanism using Kohn-Sham molecular orbital (MO) theory together with a quantitative bond energy decomposition analysis (EDA).



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Phase equilibria for binary mixtures of hexane with orthoxylene, metaxylene, and nonane with hexane at 101.3 kPa

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ABSTRACT

Experimental measurements of isobaric vapour, liquid equilibrium boiling point temperature were determined at 101.3 kPa as function of concentration for the two mixtures of hexane with orthoxylene, metaxylene and nonane with hexane by using a continuous recirculation type apparatus. The measured temperature, vapour and liquid concentration (T-x-y) results were correlated with the NRTL and the UNIQUAC models. Each binary mixture system has passed the thermodynamic consistency test of Herington. The activity coefficient values (γ) are greater than unity in three systems for all measurements. The systems studied in the present investigation are hexane with orthoxylene, metaxylene and nonane with hexane show relatively larger deviations from Raoult's law. All the systems studied here behave like non-ideal solutions. All binary systems investigated were found to be nonazeotropic in nature.

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1. Introduction

The knowledge of vapour–liquid equilibrium (VLE) properties of each constituent compound in the vapour phase was calculated by using the two-term virial equation of state incorporated with mixtures is not only fundamentally but also practically important for process development. Separation of aliphatic and aromatic hydrocarbons is commonly encountered problem in the refinery industry. Recently, Gonzalez et al. [1] found that dimethylbenzenes can be extracted from a liquid mixture of dimethylbenzenes and hexane by using the ionic liquid 1-ethyl-3-methylimidazolium ethylsulfate, [EMim][ESO]. For the system of hexane + 1,4-dimethylbenzene, isothermal VLE data at 313.15 K have been reported by Goral [2].

Now a days Chemists and Chemical engineers have given great fundamental and practical importance to experimental measured data of excess thermodynamic & physical properties of pure liquids and binary liquid mixtures. These excess properties help one to get information related to the structure and composition of compounds and different types of interactions present in binary mixed solutions. Possessing the knowledge of phase equilibrium properties of binary liquid mixtures to researchers are fascinating, innovating and of great fundamental, practical importance, and industrial applications. The separation of aliphatic hydrocarbons with aromatic hydrocarbons in the refinery

industry is commonly encountered problem. To design industrial distillation equipment, it is necessary to have an appropriate and complete knowledge of vapour liquid equilibrium data on the binary liquid mixtures for both Chemists and Chemical engineers. In general, saturated hydrocarbons (alkanes) exhibit a comparatively low reactivity and inert, because their carbon bonds are relatively strong and stable and cannot be easily broken. Not like most other organic compounds which have functional groups, they possess no functional groups but possessing carbon and hydrogen only. Crude oil comprises of a mixture of liquid alkanes and other hydrocarbons. The most prominent commercial resources for alkanes are natural gas and gasoline [3].

Our recent research project is deals to the well-mannered study of liquid systems comprising of aliphatic saturated and aromatic hydrocarbons in terms of their environmental significance. The experimental measured data in the direction of a practical point of view, are useful and helpful for the design of storage, method of mixing and process industrial equipment. This behavior attributed primarily to understand the specific interactions between unlike molecules of the present experimental measured systems. Our novel research project is dedicated to the systematic study of binary liquid systems containing modeling liquid fuel engines. Hexane is an example of saturated hydrocarbon (alkane). Hexane isomers are largely un reactive, because they are very non-polar and are most frequently used as an inert solvent in so many organic synthetic reactions. Hexanes being main constituents of gasoline and glues are used extensively for manufacturing of shoes, leather products and roofing materials. Additionally, Hexane is used as solvents to extract oils for cooking and cleaning agent for shoes, furniture and textile manufacturing industries.

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MICROSTRUCTURAL AND SUPERCAPACITIVE PERFORMANCE OF CUBIC SPINEL $\text{Li}_4\text{Ti}_5\text{O}_{12}$ NANOCOMPOSITE

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Abstract

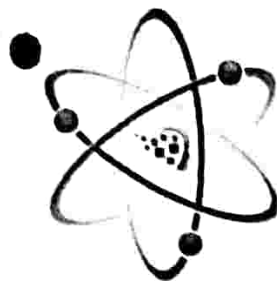
Nanocrystalline $\text{Li}_4\text{Ti}_5\text{O}_{12}$ was synthesized using solid state reaction method. The influence of sintering temperature on chemical composition and microstructure was studied. The $\text{Li}_4\text{Ti}_5\text{O}_{12}$ powder sintered at 900 °C exhibited predominant (111) orientation representing cubic spinel structure with particle size of 46 nm. The composition and phase were confirmed from TG and EDX measurements. The displayed bright spots with clear diffracted rings in SAED pattern corresponding to characteristic orientations confirm the cubic spinel LTO phase. The pure LTO electrode exhibited a discharge specific capacitance of 265 F/g at current density of 0.5 A/g with good cycling stability (81%) after 5000 cycles. The significance electrochemical properties are attributed to the phase purity of LTO with low particle size which provides improved conduction paths.

Keywords: nanocrystalline $\text{Li}_4\text{Ti}_5\text{O}_{12}$, solid state reaction, CV, GCD, supercapacitor

Introduction

In recent decades, the rapidly growing world energy demand has triggered enormous research efforts towards the design and development of advanced high energy density electrochemical energy storage (EES) systems. Among all EES devices, supercapacitors provide higher power density, fast recharge capability, and long cycle activity. The electrochemical performance of supercapacitors mainly depends on the microstructural features of active electrode material. A large number of electrode materials viz. Mixed metal oxides & hydrides, carbonaceous materials, conducting polymers have been used in the fabrication of supercapacitors. Particularly, the transition metal oxides evolved as potential materials due to natural abundance, low cost and incredible electrochemical properties combining with good structural stability [1-8]. Among all binary metal oxides, the spinel $\text{Li}_4\text{Ti}_5\text{O}_{12}$ (LTO) has been recognized as a potential candidate for energy storage devices owing to good structural stability and zero-strain throughout electrochemical process by preventing the decomposition of electrode and lithium dendrites formation. It delivers a high theoretical capacity (175 mAh g^{-1}) and shows a constant voltage plateau at 1.55 V (Li/Li^+). However, the electrochemical performance is constrained due to low electronic conductivity and lithium ion diffusion [8-13]. Several innovative methods such as doping, lowering crystallite size, carbon coatings on surface of the active material [14-16] have been employed to overcome these difficulties. One of the suitable ways to enhance the interfacial surface area of the active electrode material is to reduce particle size which in turn shorten the lithium ion diffusion path length and enhance the contact surface area of the electrode and electrolyte.

$\text{Li}_4\text{Ti}_5\text{O}_{12}$ has been synthesized by different chemical techniques such as sol-gel, molten salt, pyrolysis, microwave radiation, hydrothermal, and solid state reaction. Among all, solid state reaction method is a simple, widely used method and the precursors are inexpensive and abundant



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V. Manjunath – Department of Physics, Sri Padmavati Mahila Visvavidyalayam (Women's

Influence of Al⁺³ cation substitution on the structural properties of LaTiO₃ nanoparticles

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Abstract

In present, the work reports on the effect of Al-substitution on lanthanum titanate (LT) perovskite structures, structural and optical properties. The Al_xLa_{1-x}TiO₃ (x= 0.2, 0.4, 0.6, 0.8) (ALT) hydrothermally synthesized nanoparticles showed full tetragonal phases. The c/a ratio increases and Al replacement in the A-site occur gradually. The densities of the X-rays, indicate crystallite size, achieve inter-planer distance 'd' and FWHM (full-width half maxima). The Scherer's formula and Williamson-Hall (W-H) analysis used the X-ray peak expansion technique to determine the crystalline sizes and lattice strain; it was observed that an inversely proportional relationship exists. Fourier transforms infrared spectra (FT-IR) tested the presence of Al-O; La-O & Ti-O based metal oxide bonds at A & B sites.

Keywords: LaTiO₃ Nanoparticles, XRD, W-H analysis and FT-IR studies.

1. Introduction

Perovskite materials are going to have an ABO₃ specific chemical formula. The A and B-site cations in this structure show the different valancies depending on the compound stabilization [1]. Specifically, in some situations, the cation of the A-site may be divalent or trivalent while the cation of the B-site may be tetravalent. Such perovskite materials, however, have gained a great deal of importance in the past decades. Because of its flexible properties like organic, visual, magnetic, ferroelectrical, morphological, piezoelectrical, physical and chemical [2-8]. In the output of a few of the above-mentioned products, LaTiO₃ (LT) is considered to be a good candidate substance. There has been extensive research in both bulk and nanoform on this material. Madhavan et al.[10] Prepared the LT using the sol-gel system and recorded on the dielectric constant the impact of A and B-site doping. The results showed that A-site doping allowed 1,500 dielectric constant value to be obtained while B-site doping contributed to 900 at 100 Hz. The bulk LT was synthesized by Mozhegorov et al. [11], Ishida et al.[12] and examined for orbital structure and electronic properties respectively.

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Heat and mass transfer in MHD Casson nanofluid flow past a stretching sheet with thermophoresis and Brownian motion

Ankalagiri Chinna Venkata Ramudu, Kempannagari Anantha Kumar, Vangala Sugunamma, Naramgari Sandeep

Heat and mass transfer in MHD Casson nanofluid flow past a stretching sheet with thermophoresis and Brownian motion

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Abstract

The foremost objective of the current article is to explore the impact of Brownian motion on magnetohydrodynamic Casson nanofluid flow toward a stretching sheet in the attendance of nonlinear thermal radiation. The combined heat and mass transfer characteristics are investigated. The influence of chemical reaction, nonuniform heat source/sink, Soret, and Dufour is deemed. The convective boundary condition is taken. The appropriate transformations are utilized to transform the flow regulating partial differential equations into dimensionless ordinary differential equations (coupled). The numerical outcomes of the converted nonlinear system are solved by the Runge-Kutta based Shooting procedure. Results indicate that the temperature is an increasing function of both thermophoresis and Brownian motion parameters. The concentration of the fluid and the corresponding boundary layer thickness reduces with an enhancement in Lewis number.

KEYWORDS

Casson fluid, cross-diffusion, MHD, nonlinear radiation, stretching sheet



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Role Of Values In Post-Modern Economics- A Review**S.B. Sreerama Naik****M.A., B.Ed.**Lecturer in Economics, V.R.S. Degree College
Veerapunayuni Palli Mandal, Kadapa Dist, A.P. India**Abstract**

Economics has only danced on the fringes of this world view transition, but it is particularly suited to make a contribution to the discussion for several reasons. First, it is a social science where people are the basic building blocks of a unified theory rather than the particles of the physicist. The "objectives common to most" assumption of the economic rationalist model does not serve us as well as the physicist's assumption that particles have common objectives. They almost always seem to. Therefore, only the most ardent supporters of economics as science have promoted the pure value free reductionism position in economics. No one has really succeeded in making this position operational. This weakness in our positivistic armor makes us open to subjective methodology. A second, and more important reason for economists to enter the discussion is that the unifying force of our rationalistic model is the freedom of all participants. This notion of freedom as the real driving force of economic efficiency and social harmony positions economics on the bridge between the two world views. In economics, freedom is a concept that is compatible with both the post-modern world view and the modern mechanistic world view. In the modern view, freedom of choice makes markets work, but that freedom is constrained by the rules of the mechanism that must be followed. The freedom-authority-responsibility triad is always held in precarious balance, and, if that balance is not maintained, the existing world view will eventually be challenged. In the post-modern world view, freedom is not constrained except for the call to toleration, and, as we will see later, this autonomy makes it hard to develop the shared values needed to make a post-modern world succeed. In short, because economists know much about the freedom and control struggle, they need to be a voice in the discussion of world view transition. Third, economists must enter the dialogue because they can explore the policy implications of post-modern thinking. When the rubber of a world view hits the road of human experience, the world view can be seen from a fresh perspective. Hopefully, economists can add new insights that will be useful. This paper will attempt to comment on some aspects of the shift from modern to postmodern thought. First, it is instructive to contrast paradigm shifts of the past to gain perspective on the topic. Second, what are the symptoms of the present paradigm shift and to what degree are we now post-modern? Third, what impact might the shift have on economic thinking?

Introduction

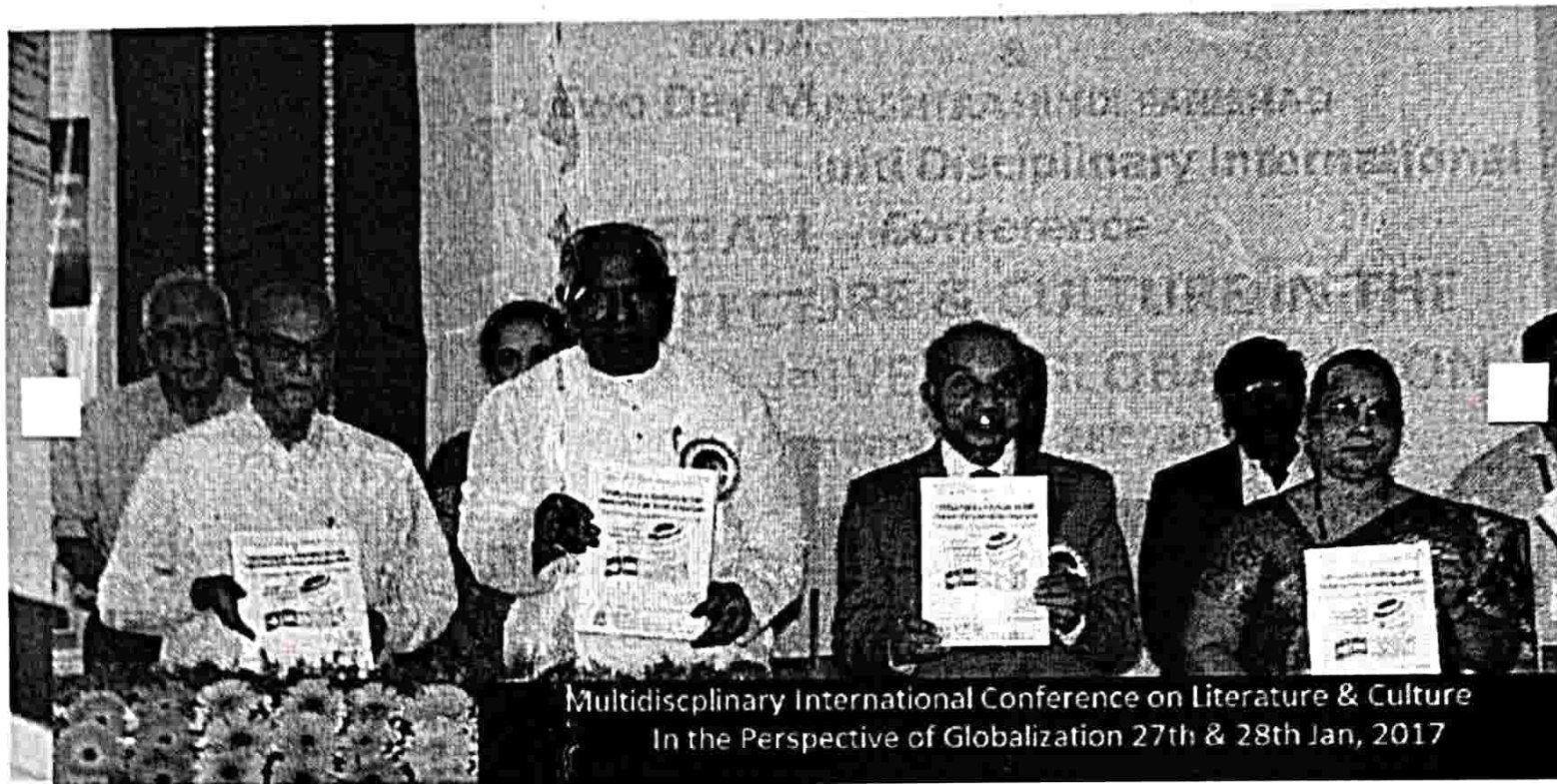
Economists, like all mortals, spend most of their time thinking about definitive realities. We have made a profession of discovering laws of human behavior that govern resource use. We use our laws to generate policy and our desire is to progress toward the absolute truth of economics so that we need not live amid chaotic unpredictable happenings. We are proud that our discipline is a science and we feel more kinship at times with the natural sciences than we do with other social sciences. Unlike other social sciences, we build on the notion that people have common objectives and are rational. From this basis we are only a stone's throw away from

objective science and highly reliable policy. Our definitive reality is the mechanistic world that is ours to conquer. The post-modern world view is changing this agenda of thought. What we think is now less important than how we think. J. L. Burkholder has proposed that "a subtle and profound change has come upon us with respect to how we perceive reality. This change is sometimes celebrated as liberation. It is to be liberated from a world of external restraints in favor of subjective freedom."¹ Reality becomes a subjective individual matter in which perspective, context, frame of reference, and individual perception are the important factors. As confidence in enlightenment rationalism fades and the contours of subjective relativism

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New Social Movements in Karnataka – Some Observations

C. Baba Fakardhin

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Abstract

Unlike the other parts of India, Karnataka witnessed very few social movements in its history. Most of the movements belonged to the post-colonial period. These movements need to be located in a particular context and period. In fact some of the social movements came to surface during 1970s (Dalit Movement) however other social movements surfaced during 1980s/1990s. There are many issues that made the possibilities of social movements emerging, terms of trade going against the agriculture, growing depletion of environment, globalization, growth of a different social categories and finally growing fear of 'loss' - loss of Identity, loss of culture, loss of social space, loss of social life and loss of nature. Nonetheless, post 1970s saw many 'New' social movements, ecology, farmers, dalits, tribals, etc. This is a common phenomenon throughout the country, including Karnataka. The paper highlights the above issues reflecting some major reasons.

Introduction

Until the end of the colonial rule Karnataka State did not witness different forms of crises such as ecological/environmental crises, crises of urban space, crises of working class, including the fact that state did not witness massive growth of industries. This is the reason why majority of the social movements came to surface during post-independence period. Nonetheless post-independence movements are popularly called New Social Movements. (Brass: 1995) This conceptualization is done on the basis of following:

1. Unlike the earlier movements the 'New' social movements are concerned about the larger issues afflicting the social categories.
2. These movements believe in undivided social categories and thereby advocate class harmony and unity among the social categories.
3. New Social Movements are no more confined their activities to the rural areas rather their operational areas have expanded to reach global level.

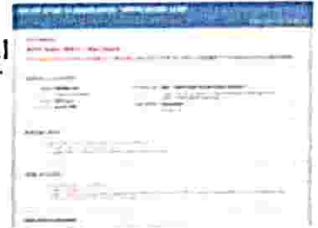
4. They believe in forming larger collectives both at the national level and international level.
5. They have the distinct notion about the present and the future.
6. New Social Movements basically believes in retrieving an autonomous space for different social categories from within the civil society.
7. Although new social movements throw up large number of ideologies however, they all vouch for Gandhism or its variants.
8. The Strategies that they employ is also new- Gav Bhandi to Jal Samadhi or ransacking the Multinationals and its properties.
9. They believe in analysing the issues both from within and from the larger perspectives such as from the perspectives of globalisation, etc

These movements need to be located in a particular context and period. In fact some of the social movements came to surface during 1970s (Dalit Movement) however other social movements surfaced during 1980s/1990s, There are many issues that made the possibilities of social movements

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ABSTRACT

Elium, the first welding. The composite parts made from Elium resin can be developed and recycled by thermoplastic resin is designed for the manufacturing composite material parts with certain mechanical properties similar to that of thermosetting. The uniqueness of Elium is it behaves as a thermoplastic which is designed for thermoforming, recycling and depolymerization. The principle involved is coarsely crushing Elium resin and then heat depolarized as it can be recovered and purified into a resin with the similar properties as that of the virgin resin. Elium resin is a tremendous asset, especially in the manufacturing of wind turbines where non-recyclable epoxy resin is used in the manufacturing of blades.

Key words: Elium, thermoplastic resin, thermoforming, depolymerization, epoxy resin.

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1. INTRODUCTION

Continuous fiber-reinforced composites (CFRC) are widely used now a days in innumerable industrial sectors, Medical technology, Aviation, Automobile, conveyance and construction

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A REVIEW ON IONIC LIQUIDS-THEIR CLASSIFICATION, CHARACTERISTICS AND APPLICATIONS

V PRABHAKAR RAO, G CHANDRA SEKHAR*

Department of Chemistry, Govt. Degree & PG College, PUTTUR, AP

Abstract

Ionic liquids (ILs) have emerged as an environmentally friendly alternative to the volatile organic solvents. Being designer solvents, they can be modulated to suit the reaction conditions, therefore earning the name "task specific ionic liquids." Though primarily used as solvents, they are now finding applications in various fields like catalysis, electrochemistry, spectroscopy and material science to mention a few. The present review is aimed at exploring the classification of ILs, their physical properties and applications in various fields.

Key words

Ionic liquids, task specific ionic liquids, magnetic ionic liquids, valorization, tribology, electrochemical window, designer solvents.

1. Introduction

Ionic liquid (ILs) is defined as a salt with melting point below the boiling point of water. Most of the ionic liquids are composed of organic cation and inorganic anions. In order to be liquid at room temperature, the cation should preferably be unsymmetrical. Now a days, volatile organic solvents (VOS) creating increasing air pollution are common reaction media for many chemical processes. VOS cannot be easily separated from the desired reaction products and difficult to recycle. In view of awareness of the deteriorating environment, researches are directed on developing alternative environmental friendly solvent systems to replace traditional volatile organics. Within this context, the interest of ionic liquids (ILs) as "green" solvents has come up as these have extremely low vapour pressure, high thermal stability, which also offers advantages such as ease of containment, product recovery and recycling ability. ILs have been implemented as solvent systems in chemical reactions, synthesis, separations, extractions, electro analytical applications and chemical sensing, among many others. Also, they have high ionic character that enhances the reaction rates to a great extent in many reactions. Keeping in view, the enormous advantages of ILs, this review article briefly describes the meaning of ILs, history, characteristics, applications.

2. Ionic liquids

Ionic liquid (IL) is a salt in the liquid state. In some contexts, the term has been restricted to salts whose melting point is below some arbitrary temperature, such as 100 °C. These substances are variously called liquid electrolytes, ionic melts, ionic fluids, fused salts, liquid salts or ionic glasses [1-3]. Any salt that melts without decomposing or vaporizing usually yields an ionic liquid. Any ionic substance [for example Sodium chloride (NaCl), melts at 801 °C melts at usually at high temperatures; this is because the ionic bond is quite strong. So, ionic substances have limited applications as most of the reactions are performed at room temperatures. This is where the ionic liquids play a vital role as they have ionic characteristics and at the same time are in liquid state.

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డా. కె. యన్. సుందరేశ్వరరావు, తెలుగు శాఖాధ్యక్షులు ఎన్ఎస్ఎస్ఆర్ ప్రభుత్వ డిగ్రీ కళాశాల ప్రొద్దుటూరు.

కా.రా. మాస్టరిగా ప్రసిద్ధుడైన కాలేవట్టం రామారావు కాలితరం. తెలుగు కథారచయితల్లో రావిశాస్త్రి చేత ప్రభావితమై మంచి కథలు రాశారు. కా.రా. ప్రసిద్ధ కథల్లో 'తీర్పు', 'యజ్ఞం', 'హింస', 'భయం', 'శాంతి', 'చావు', 'కుట్ర' మొదలైన కథలు వ్రాయాయి. అందులో 'భయం' కథను విశ్లేషించడానికి ఈ వ్యాసం ఉద్దేశించబడింది.

మానవ జీవితంలోని సంఘర్షణలను కథలుగా ఎలా మలచుకోవాలో, ఒక రచయిత తన సామాజిక వేదనను స్పష్టపరచుకోవాలో ఎలా వ్యక్తీకరించవచ్చో కా.రా. కథలు మనకు తెలియజేస్తాయి. 1960 దశకంలో దేశంలోని గ్రామీణ, పట్టణ ప్రాంతాల్లో మాతన పారిశ్రామికవిధానం వల్ల మారుతున్న ప్రజాజీవనం, ద్రవ్య ఆర్థికవిధానం అనాటి నమాజంలో తెచ్చిన మార్పులు, వర్గ సంఘర్షణ, వర్గ చైతన్యం-దాని స్వభావాలు సిద్ధాంతరూపంలో కాకుండా వాస్తవిక జీవితచిత్రణ ద్వారా కా.రా. కథలు ప్రదర్శించాయి. 1968 నుండి దేశ పరిస్థితుల్లో వచ్చిన మార్పు, కమ్యూనిస్టు ఉద్యమంలో చీలిక, విరసం ఏర్పాటు మొదలైన అంశాలు ప్రభావం కలిగివున్న రోజుల్లో కా.రా. కథలు రాశారు. 'భయం' కథ కూడా ఈ వేపథ్యం లోనే రాయబడింది.

మార్క్సిస్టు భావజాలం తీసుకువచ్చిన కొత్త అభిప్రాయాలను మార్క్సిస్టు భావజాలతో మొదలైన ఉద్యమాల వెనుక ఉన్న సామాజిక న్యాయంతో ప్రభావితమైన రచయితలు, ఆ భావజాలాన్ని యథాతథంగా రచనలోకి దింపడం ఒక పద్ధతి. మార్క్సిజం ఆధారంగా తమదైన శైలిలో జీవితాన్ని దర్శించి, వ్యాఖ్యానించడం రెండో పద్ధతి. పై రెండు అంశాల పమన్వయంతో జీవితాన్ని పరిశీలింపడం ద్వారా తమకు కలిగిన అభిప్రాయాలను పరిచూసుకుంటూ, జీవితదృక్పథాన్ని స్థిరం చేసుకొని రచనలు

చేయడం మూడో పద్ధతి. కా.రా. ఈ మూడో పద్ధతిలో రచనలు చేశాడు. ఆ రచనల్లో 'మార్క్సిస్టు భావాలను కలిగిన వ్యక్తులను పాత్రలుగా తీసుకురాకుండా రచన చేసిన ఘనత కూడా కా.రా.కు దక్కుతుంది. తాను నమ్మిన భావాలను నిరూపించడం కోసం 'కథను, అందులో సంఘటనలను సృష్టించి, యాంత్రికంగా తీసు నడవకుండా, తాను నమ్మిన నేత్యాన్ని జీవితంతో నమన్వయం చేసి, రచనను జీవితపరిశీలన వైపు నడిపించి, నమాజంవల్ల ప్రేమను చూపేటట్లు పాత్రకులను నంపిద్దల్ని చేపడితగా కా.రా. కథలు కవివైపును గ్రామీణజీవనం, అదర్థ కుటుంబవేపథ్యం నుండి వచ్చిన కా.రా. కథల్లోని పాత్రలు దాదాపు గ్రామీణ ప్రాంతపు అట్టడుగువర్గాలకు చెందినవిగా చెప్పవచ్చు.

కా.రా. కథల్లో చాలావరకు రావిశాస్త్రి ప్రభావం ఎక్కువ. ఇద్దరి రచనాలక్ష్యాలు ఒకటే కావడం దీనికి కొంత కారణం. దోపిడీవ్యవస్థలో అణగారే జీవితాలను చిత్రించడం, ఆ దోపిడీకారణాలు గుర్తించే చైతన్యాన్ని కలిగించడం వీరిద్దరి ద్యేయాలు. ఇతర రచనల్లో మాత్రం కలిగించడం వీరిద్దరి ద్యేయాలు. ఇతర రచనల్లో మాత్రం అనలు సాల్లికే కనబడదు. రావిశాస్త్రి నగరజీవితంలోని నందుగొండుల చీకటి కోణాలను చరిత్రీకరించి ప్రదర్శిస్తే కా.రా. వల్లవానుల కంటారీ బతుకుల్లోకి అర్పించి పరిశీలించారు. 'చేరా-మాటల్లో' - రావిశాస్త్రి వచనం చూపాడని కవిత్వస్థాయికి ఎగిరితే, కా.రా. వచనం ఎంచుకోని ఎండునదిలాగా ప్రవహిస్తుంది. రావిశాస్త్రి వచనంలోని విరుపులు, గమ్మత్తులు కా.రా. వచనంలో ఉండవు. కా.రా. వచనంలో నివర్గ సౌందర్యం ఉంటుంది.

'భయం' కథ - ఒక విశ్లేషణ:

యుగాల అలోచన వచ్చి క్షణకాలపు అనుభవమే మనవిని మారుస్తుందని ఈ కథ తెలియజేస్తుంది. 'భయం'



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Sacrificial Doping as an Approach to Controlling the Energy Properties of Adsorption Sites in Gas-Sensitive ZnO Nanowires (2673-8023/3/2/40)

by [Svetlana Nalimova \(https://sciprofiles.com/profile/2055310\)](https://sciprofiles.com/profile/2055310),

[Zamir Shomakhov \(https://sciprofiles.com/profile/author/S1V1Q0M4b2E3aUJycmpSdHdmU2I4eENHaWdQcTdKdTTIVzQza0NINk05bz0=\)](https://sciprofiles.com/profile/author/S1V1Q0M4b2E3aUJycmpSdHdmU2I4eENHaWdQcTdKdTTIVzQza0NINk05bz0=),

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Micro 2023, 3(2), 591–601; <https://doi.org/10.3390/micro3020040> (<https://doi.org/10.3390/micro3020040>) - 01 Jun 2023

Abstract Currently, devices for environmental gas analyses are required in many areas of application. Among such devices, semiconductor-resistive gas sensors differ advantageously. However, their characteristics need further improvement. The development of methods for controlling the surface properties of nanostructured metal oxides for their use [...]. [Read more.](#)

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Article

Enhanced Electrochemical Performance of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ by Niobium Doping for Pseudocapacitive ApplicationsJinka Chandrasekhar ¹, Merum Dhananjaya ¹, Obili M. Hussain ^{1,*}, Alain Mauger ² and Christian M. Julien ^{2,*} ¹ Thin film Laboratory, Department of Physics, Sri Venkateswara University, Tirupati 517502, India; jksekar4@gmail.com (J.C.); msdhananjaya51@gmail.com (M.D.)² Institut de Minéralogie, de Physique des Matériaux et de Cosmochimie (IMPMC), Sorbonne Université, CNRS UMR 7590, 4 Place Jussieu, 75005 Paris, France; alain.mauger@sorbonne-universite.fr

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Abstract: Niobium-doped nanocrystalline $\text{Li}_4\text{Ti}_5\text{O}_{12}$ (LTO) is synthesized by the solid-state reaction method, and the influence of dopant concentration ($x = 2\text{--}10\text{ mol}\%$) on microstructural and electrochemical properties is studied. The X-ray diffraction and Raman patterns assessed the cubic spinel structure of $\text{Li}_4\text{Ti}_{5-x}\text{Nb}_x\text{O}_{12}$ phase in all samples. Marginal changes in the lattice parameters, unit cell volume and dislocation density of LTO are observed with Nb substitution. The higher ionic radius of Nb induces a lattice expansion, which may be favorable for more ion intercalation/deintercalation. The SEM and TEM images display uniformly distributed nano-sized cubical particles. The represented (hkl) orientations of the SAED pattern and d-spacing (0.46 nm) between bright fringes confirm the well-crystallized LTO phase. The EDS and elemental mapping results demonstrate that Nb elements are uniformly doped in LTO with a proper stoichiometric ratio. The optimized 8%Nb-doped LTO electrode exhibits pseudocapacitive behavior and delivers a high specific capacitance of 497 F g^{-1} at a current density of 1 A g^{-1} with 92.3% of specific capacitance retention even after 5000 cycles.

Keywords: $\text{Li}_4\text{Ti}_5\text{O}_{12}$; Nb doping; nanostructure; supercapacitor; energy storage

1. Introduction

The demand for electrochemical energy storage (EES) devices has grown day by day considering their potential applications in various electronic products ranging from toys to submarines. Among these devices, supercapacitors have been established as one of the proficient energy storage systems due to their high-power density, fast charge/discharge capability, and comprehensive cycle life properties [1,2]. The electrochemical activity of the supercapacitors relies effectively on the charge conservation of active electrode materials (carbon, metal oxides, and conducting polymers) [3–6]. Essentially, the transition-metal oxides (TMOs) progressed as favorable electrode materials due to excellent structural stability during the electrochemical reaction, as well as the fact that they are plentiful and less expensive. Moreover, several researchers have stated that TMO electrodes exhibit either capacitive/faradaic reactions or both and are ideal for the application of electrochemical double layer capacitors (EDLCs) or pseudocapacitors (PCs) [7–11]. Besides supercapacitors and batteries, the hybrid devices are an interesting combination of both devices [12].

Among all TMOs, the cubic spinel $\text{Li}_4\text{Ti}_5\text{O}_{12}$ (LTO) is one of the potential candidates for EES applications due to its outstanding cycle life and zero strain property during the charging/discharging process. It delivers a high theoretical capacity of 175 mAh g^{-1} since three or more Li^+ ions are accommodated per one formula unit. Moreover, a flat discharge profile at 1.55 V (vs. Li^+/Li) demonstrates that it avoids the formation of SEI film. However, the LTO is a large bandgap (3.54 eV) semiconductor, in which the electrons are transferred from the 3d state of Ti to the 2p states of O, which leads to low electrical conductivity ($10^{-13}\text{--}10^{-9}\text{ S cm}^{-1}$) and limits the electrochemical activity [13–16]. Several



Colossal dielectric behavior in $\text{Al}_{0.8}\text{Gd}_y\text{La}_{0.2-y}\text{TiO}_3$ ($y = 0.01\text{--}0.04$) nanostructures

S. Dastagiri¹, G. Pakardin², T. Anil Babu³, M. V. Lakshmalah^{1,*}, and K. Chandra Babu Naidu^{3,*} 

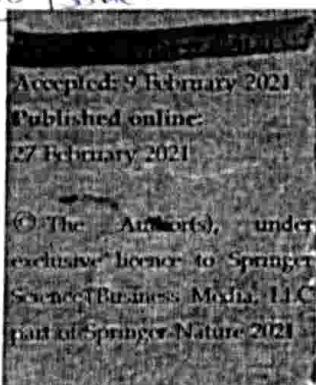
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ABSTRACT

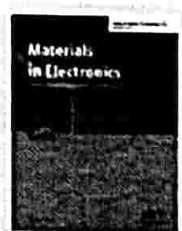
The $\text{Al}_{0.8}\text{Gd}_y\text{La}_{0.2-y}\text{TiO}_3$ ($y = 0.01\text{--}0.04$)/AGLT nanoflowers were synthesized via the hydrothermal method. X-ray diffraction patterns showed the polycrystalline nature of AGLT samples, wherein the maximum intense peak was recorded at 13.472° . The surface morphology revealed the nanoflowers, nanospheres, and nanorods like structures for all samples. Furthermore, the optical band gap (E_g) was determined using UV-Visible spectra. The FTIR spectra indicated the existence of metal oxide bonds and other functional groups. The colossal dielectric behavior was observed for $y = 0.01$ content. The dielectric modulus and impedance spectroscopy properties were elucidated as a function of frequency and composition.

1 Introduction




The perovskite titanates doped with rare-earth elements offered interesting structural, morphological, electrical, dielectric, magnetic, magnetocaloric, piezoelectric, etc., properties [1]. Many scientists focused on studying various properties of well-known perovskite titanates such as MTiO_3 ($M = \text{Ba}, \text{Ni}, \text{Mg}, \text{Sr}, \text{Pb}, \text{Al}, \text{La}, \text{Ca}, \text{Zn}, \text{Mn}, \text{Co}, \text{Eu}, \text{Zr}, \text{etc.}$) [1]. Among these titanates, the aluminum titanates (AT) were studied in a very limited manner. These aluminum titanate materials were studied by previous scientists [2–6] for structural, optical, photocatalytic, electrical, and mechanical properties. Sahu et al. [2] prepared the AT nanoparticles and reported

the dielectric properties of tetragonal structure. Azarniya et al. [3] developed the AT nanoparticles as well as nanofibers. Further, the in-depth microstructure was investigated. Bakhshandeh et al. [4] reported the photocatalytic activity of AT nanoparticles. Ewais et al. [5] extracted the AT based ceramics from the aluminum sludge waste. Tang et al. [6] observed the giant electro-rheological effects in AT nanoparticles. From this broad literature survey, it was clear that the research work done on AT and its based nanomaterials was not available in an abundant manner. It was also noticed that the rare-earth doped titanates exhibited outstanding electrical, dielectric, magnetic, magnetocaloric, and piezoelectric properties, as indicated in the literature [7–14]. As reported

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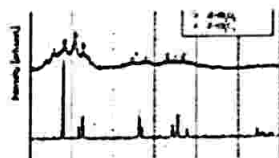
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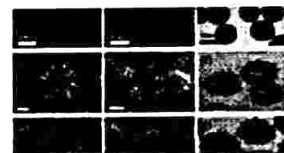
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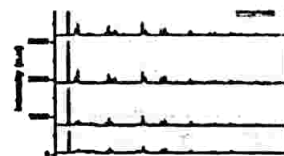
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Colossal dielectric behavior in Al_{0.8}Gd_yLa_{0.2-y}TiO₃ (y = 0.01–0.04) nanostructures

S. Dastagiri, G. Pakardin ... K. Chandra Babu Naidu

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Influence of potassium chloride doping on the properties of potassium dihydrogen phosphate crystal for nonlinear optical applications

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FABRICATION OF SODIUM ALGINATE/GUM GHATTI IPN MICROBEADS INTERCALATED WITH KAOLIN NANO CLAY FOR CONTROLLED RELEASE OF CURCUMIN

Original Article

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ABSTRACT

Objective: The objective of this study is to fabricate sodium alginate (SA)/gum ghatti (GG) microbeads intercalated with Kaolin (KA) nano clay for the sustained release of curcumin (CUR).

Methods: The microbeads were prepared by a simple ionotropic gelation technique. The developed beads were characterized by Fourier transform infrared spectroscopy (FTIR), differential scanning calorimetry (DSC), thermogravimetric analysis (TGA), X-ray diffraction (XRD), and scanning electron microscopy (SEM). Swelling studies and *in vitro* release studies were investigated under both pH 7.4 and pH 1.2 at 37 °C.

Results: The developed microbeads were characterized by FTIR, which confirms the interaction between CUR, polymeric matrix and KA. DSC and XRD analysis reveals that the CUR has molecularly dispersed in the polymer matrix. *In vitro* results illustrated that microbeads were influenced by the pH of test media, which might be suitable for intestinal drug delivery. The drug release mechanism was analyzed by fitting the release data into different kinetic equations and *n* values are obtained in the range of 0.609-0.640, suggesting that the developed microbeads showed the non-Fickian diffusion type drug release.

Conclusion: These results clearly illustrated that the developed KA intercalated polymeric microbeads are potential drug carriers for the controlled release of CUR.

Keywords: Gum Ghatti, Kaolin, Sodium alginate, Curcumin, Microbeads

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INTRODUCTION

In today's pharmaceutical formulations, polymers play a vital role in the progression of drug delivery technology by offering different types of pharmaceutical dosage formulations such as oral, parenteral, semisolid, controlled and sustained drug delivery systems because it can control the drug release and also it may increase the safety, efficacy, and bioavailability of the drugs with increased patient compliance [1-3]. Over the past few decades, polymeric interpenetrating polymer network (IPN) hydrogel microbeads have been broadly used as an intelligent biomaterial in many biomedical applications such as drug delivery and tissue engineering due to their excellent physical and chemical properties such as high water absorption tendency, high mechanical strength, capable of swelling under physiological conditions, providing a suitable environment for cell adhesion and new bone formation [4-6]. However, hydrogels have few disadvantages such as unconstrained release rate and uncontrolled swelling properties, leading to several side effects. To overcome these problems, certain substances have been introduced into the hydrogels such as clay minerals, surface coating with other polymers such as poly-L-Lysine [7], chitosan [8]. By introducing clay minerals such as Kaolin, montmorillonite into hydrogels, this controls the release rate of hydrogels, minimizing side effects and maintaining the drug concentration at effective levels in plasma over a period of time [9].

During the last few years, a wide range of clay minerals have been used in pharmaceutical and biomedical fields exclusively for controlled drug delivery systems because it can control the efficiency and consistency in dosage formulations and also improve the bioavailability of the drug molecules due to their larger specific surface area and considerable ion-exchange capacity which attributes to their ability to control the efficiency of bioactive molecules [10-12]. Kaolin is a hydrated two-dimensional (2D) aluminosilicate clay mineral which has been extensively used in biomedical related applications such as an activating agent for blood clotting [13], as an ingredient for operation hemostasis [14] and also

used in drug delivery systems for prolonged-release, especially of basic drugs because it can act as an active excipient in pharmaceutical dosage forms to increase the efficiency and bioavailability of drug molecules [15]. In fact their medicinal utilities have been discovered by many traditional civilizations (Egyptians, Assyrians, Babylonians, Indians, Chinese), Greeks, Romans and medieval Arab Muslims till the recent times [16].

Curcumin is a yellow bioactive compound obtained from the yellow spice of *Curcuma longa*, possesses a wide variety of pharmacological properties such as antibacterial, antioxidant, anti-inflammatory, anti-malarial, antifungal antiviral and also enhances anti-tumor activity against different types of cancer cells, including colon, prostate and breast cancers [17-19]. Due to its poor solubility and rapid metabolism, its biomedical applications are limited which results in poor bioavailability [20]. To increase the bioavailability and encapsulation efficiency of CUR, KA clay mineral was used in the present study because KA intercalates with drug molecules by adsorption process, which in turn increases the encapsulation and bioavailability of CUR.

Gum Ghatti (GG) is an anionic polysaccharide obtained from the species *Anogeissus latifolia*, comprising α -D-linked -D-galactopyranose major units and alternating 4-O-substituted and 2-O-substituted-D-mannopyranose units along with a single L-arabinofuranose unit as side chain [21, 22]. GG has widely used in food and pharmaceutical applications, due to its excellent emulsification property, many researchers have shown potential interest in the usage of GG in drug delivery applications as a controlling polymer [23]. Sodium alginate (SA) is a linear anionic polymer consisting of various amounts of 1-4 linked β -D-guluronic acid and α -L-mannuronic acid residues. SA has been commonly used in the food and biomedical applications due to its flexible characters such as biocompatible, biodegradable, inherent hydrophilicity and non-toxic in nature [24]. SA forms three dimensional hydrogel networks through the electrostatic attraction between carboxylic acid groups of guluronic acid residues and divalent ions (Ca^{2+} , Mg^{2+} and Ba^{2+}) and makes egg-box structure [25]. However, the SA






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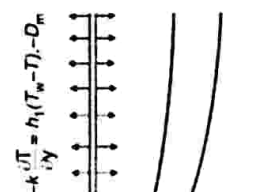


Impact of Soret and Dufour on MHD Casson fluid flow past a stretching surface with convective–diffusive conditions

A. C. Venkata Ramudu, K. Anantha Kumar ... N. Sandeep

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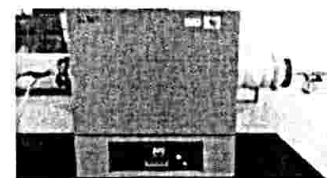


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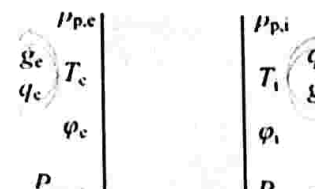


Moisture transfer characteristics of the wall with phase change material

Yun Zhang, Xiaoyu Wang ... Xiuzhang Fu

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Impact of Soret and Dufour on MHD Casson fluid flow past a stretching surface with convective–diffusive conditions

A. C. Venkata Ramudu¹ · K. Anantha Kumar^{1,2} · V. Sugunamma¹ · N. Sandeep³

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Abstract

The intension of current inquiry is to highlight the impact of magnetohydrodynamic Casson fluid flow across a convective surface with cross diffusion, chemical reaction, non-linear radiative heat are accounted. Convection and diffusive boundary conditions are deemed. The governing flow equations for the flow fields are converted into non-dimensional form by using appropriate similarity variables. These ODEs are solved by fourth order Runge–Kutta and Shooting method. The outcomes are bestowed with plots and table for the influence of diverse flow variables on the flow fields. We observed that depreciate temperature and appreciate concentration with the upsurge in Sorret number, whereas a negative impact is perceived with Dufour number. A decrement in Nusselt number and an enhancement in Sherwood number are observed for the intensification of non-linear radiative parameter.

Keywords Convection · Heat and mass transfer · Chemical reaction · Irregular heat generation/absorption · Non-linear heat

Introduction

Diffusion of matter that is resulted by gradient of heat is defined as Soret or diffusion thermo or thermo diffusion effect and diffusion of heat is resulted by gradient of concentration is defined as Dufour effect. These impacts have played significant role for too large temperature and concentration gradients. Mostly these two impacts are treated as second order aspects. Its applications are migration of ground water pollutant, chemical reactors and geosciences. Many researchers are attracted in the area heat flux mass transport owing to immense applications in various disciplines. Nityadevi and Yang [1] investigated Dufour effect on the motion of a partial square enclosure. Soret effect on power-law fluids towards a radiated penetrable sheet is

analysed by Tai and Ichar [2]. Awad et al. [3] presented the flow features of heat as well as mass transport through a conical geometry in the attendance of diffusion thermo, thermo diffusion effects and convection in a permeable surface. The Williamson liquid flow past an inconstant stretchable sheet with drag force, diffusion thermo as well as thermo diffusion is reported by Babu and Sandeep [4]. Hayat et al. [5] elucidated the impact of drag force, thermo diffusion as well as diffusion thermo on the peristalsis of Bingham liquid in a non-symmetric channel. Magnetohydrodynamic flow of Maxwell and Casson liquid motion towards a stretching sheet in the attendance of diffusion thermo as well as thermo diffusion is addressed by Reddy et al. [6]. Zaigham et al. [7] presented Dufour and Soret effects in a mixed convective shear thickening liquid motion by exponentially heated sheet. Cross-diffusion impact on shear thickening liquid stream across a wedge with mixed convection is revealed by Sardar et al. [8]. Raju and Sandeep [9] investigated that the heat flux mass transport behaviour of gyrotactic microorganisms with the motion of shear thickening liquid towards a revolving cone or plate with thermo diffusion. Magnetohydrodynamic 3D motion of viscoelastic liquid across a deforming sheet in the existence of Dufour effect is examined by Ashraf et al. [10]. Shojaei et al. [11] reported the radiative heat transport of a non-Newtonian liquid motion across stretchable cylinder with Soret effect. The impact of Dufour and

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MILLETS AS NUTRACEUTICALS: A REVIEW

Venkata Lakshmi Janapati and Dr. Ch.M.Kumari Chitturi

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ABSTRACT

The World Health Organization (WHO) recognizes that maintenance of optimum global public health requires not only the prevention of the early onset of chronic diseases but also the promotion of a healthier aging and ultimately prolongation of life. Going back to a well-recognized dogma of ancient Indian Siddha literature and Hippocrates 'food is medicine and medicine is food,' diet and dietary habits have been established to play important role for exalted health benefits based on different properties of foods. Millets are a group of highly variable small-seeded grasses, widely grown around the world. Millets are also rich sources of Carbohydrates, phytochemicals and micronutrients. Millets have nutraceutical properties in the form of antioxidants that prevent deterioration of human health such as lowering blood pressure, risk of heart disease, prevention of cancer and cardiovascular diseases, diabetes, decreasing tumor cases, etc. Other health benefits are increasing the time span of gastric emptying, provides roughage to gastro intestine. The objective of this review is to emphasize the importance of Millets in context of universal health and nutritional crisis. The role of biotechnological advancements for enrichment of its nutritional value and how these developments can commission to the field of nutritional biology by opening new avenues for future research.

Key Words: Nutraceuticals, Phytochemicals, Antioxidants, Micronutrients

INTRODUCTION

Industrialization resulted in a lot of Air, Water, and Soil Pollution leading to Food Contamination with chemicals, hazardous heavy metals and manmade effluents. These problems have led into an increased incidence of Cardio Vascular Disorders, Diabetes, Cancer, Ageing, Obesity, Gastro Intestinal Disorders, and other Physiological Disorders. The health care in public has increased the cost of medical care. Hence the public chooses an alternative pathway of consuming more fiber-rich food like Millets, leafy vegetables, fruits, etc to prevent early onset of chronic diseases. Thus taking dietary supplements or nutraceuticals, or using nutritional therapy to replace chemotherapy and radiotherapy [1].

NUTRACEUTICALS

"Let food be thy medicine and medicine be thy food" A well-recognized dogma of ancient Indian Siddha literature and Hippocrates. The term "Nutraceutical" combines the word "nutrient" (a nourishing food or food component) with "pharmaceutical" (a medical drug). Nutraceuticals this name was coined in 1989 by Stephen DeLelice, founder, and

chairman of the Foundation for Innovation in Medicine, located in Cranford, New Jersey. Any nontoxic food component that has scientifically proven health benefits, including disease treatment and prevention can be termed as Nutraceutical [1],[2]

MILLETS

Millets are important crops in the semi-arid tropics of Asia and Africa (especially in India and Nigeria), with 97% of millet production in developing countries. The crop is favored due to its productivity and short growing season under dry, high-temperature conditions. The most widely grown millet is pearl millet, which is an important crop in India and parts of Africa. Finger millet, Proso millet, and Foxtail millet are also important crop species [3]. The major types are Pearl millet (*Pennisetum glaucum*), which comprises 40% of the world production, Foxtail millet (*Setaria italica*), Proso millet or white millet (*Panicum millaceum*), and Finger Millet (*Eleusine coracana*). Minor millets include: Barnyard millet (*Echinochloa* spp.), Kodo millet (*Paspalum scrobiculatum*), Little millet (*Panicum sumatrense*), Guinea millet (*Brachiaria deflexa* = *Urochloa deflexa*), Browntop millet (*Urochloa ramosa* = *Brachiaria*

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Phytochemical Screening of various Health Promoting Components in Red Grape Seed (*Vitis vinifera* .L), *Tinospora cordifolia* and *Phyllanthus emblica* fruit extracts

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Abstract:

Objective: The aim of the study is to screen the phytochemicals present in the Red Grape Seed (*Vitis vinifera* .L), *Tinospora cordifolia* and *Phyllanthus emblica* fruit extracts .

Methodology: Red grapes (*Vitis vinifera*.L), *Tinospora cordifolia* and *Phyllanthus emblica* Extracts were found to provide a wide range of health promoting and health protecting properties, exhibiting plenty of potential compounds to screen and exhibit different varieties of polyphenolic compounds. Phytochemicals are organic chemical elements that exist naturally in plants and have positive effects on human health.



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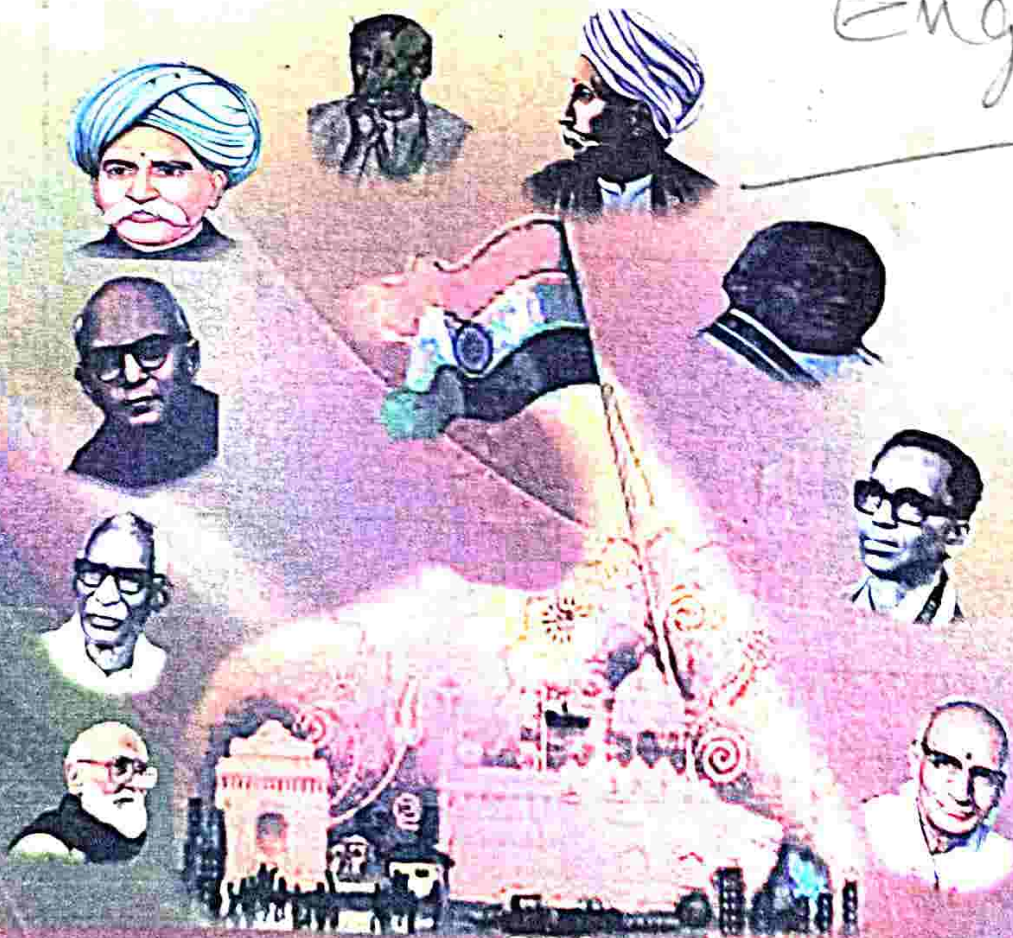
"Role and Inspiration of Telugu Poetry and Poets in Attaining Indian Independence"

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GARIMELLA SATYANARAYANA'S ROLE IN INDIAN INDEPENDENCE MOVEMENT: AN OUTLOOK

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Abstract

A Telugu poet and satyagrahi whose song became an anthem of freedom, Garimella Satyanarayana's words once inspired millions but are all but erased from our collective consciousness. While we all know the social and political history of the struggle for freedom from British rule in India, what doesn't get as much attention is the period's literary history – the poets and writers who wielded the pen to inspire their fellow Indians to free themselves not just from the physical shackles of foreign rule but also the mental shackles it had created. Over 200 years of subjugation had destroyed the will of the people, and poetry and song played a large role in loosening this stranglehold and invoking the spirit of revolt. The paper highlights the role of Garimella Satyanarayana in awakening and inspiring the people of Andhra and his contribution to telugu literature.

Key Words: Satyagrahi, National Movement, Maakoddee Telladoratanamu etc.

Introduction:

Indian poet and liberation warrior Garimella Satyanarayana (14 July 1893 – 18 December 1952) was from the Andhra Pradesh region. With his patriotic songs and writings, he inspired and inspired the Andhra people to rebel against the British Raj, for which the British government imprisoned him multiple times. In 1893, he was born into a Brahmin family in the Gonepadu village near Priya agharam in the Narasannapeta taluq of the Srikakulam district to Venkatanarasimham and Suramma. We don't need this white rule, the title of Satyanarayana's well-known song *Maakoddee Telladoratanamu* (We don't need this white rule). He used to perform this song personally. During the Indian independence movement, Andhra Pradesh homes were filled with this particular song. A generous attorney by the name of Kannepalli Narasimha Rao assisted him in his studies so that he could graduate (BA). He had jobs as a clerk in the Ganjam district collector's office and a teacher at a high school in Vijayanagaram. He abandoned his studies in response to Mahatma Gandhi's invitation to join the movement for non-cooperation. He wrote his well-known song *Maakoddee Telladoratanamu* at this period, for which he was sentenced to a year in prison in 1922. He continued his involvement in the campaign by singing songs in villages after being released from prison. He received a two and a half year term of hard labour for

this. While he was in jail, his entire family-his wife, father, and grandfather-passed away. Additionally, he was the owner of Kalpaka Vilaas. He died in a destitute state on 18 December 1952 after spending several years in poverty.

The British purposefully outlawed books, imprisoned thousands of authors and poets, and confiscated numerous printing presses because they were well aware of the potent potential of the spoken word. However, the voice of liberty could never be silenced. To truly comprehend India's freedom struggle, one must therefore study the poetry and writing of the era. By 1919, the moderate voices that had up until that point represented the freedom movement were being replaced by a younger generation. For them, discussing reform was no longer sufficient; a total transfer of power was what mattered. Riots and agitations were common. The aggressive British authorities routinely arrested people and locked them up without giving them a chance to defend themselves.

Recognizing the newly awakened mood of the Indian people, Mahatma Gandhi made the decision to use a new weapon-the satyagraha-based on the tenets of truth and nonviolence. The peasants were a significant participant in the first true direct mass action programme, which engaged practically all socioeconomic strata. The most prominent national poet of Andhra Pradesh, Garimella Satyanarayana emerged against this historical backdrop to express the resistance of his people to the power of the British administration. His ascent to fame occurred at the same time as the Non-Cooperation Movement in 1921–1922. They had been particularly drawn to the song *Maakoddee Telladoratanamu* (We don't want this white man's rule), for which Garimella is remembered. Perhaps the longest song sung during the time of the liberation movement was this haunting ballad, which has 162 lines. It was a scathing accusation against the British and the social, political and economic circumstances that existed under their control. Not only did freedom warriors sing it, but also youngsters, beggars, and people attending weddings.

The song '*Maakoddee Telladoratanamu*' became so well-known that it was requested by Garimella to perform it for him by G T H Bhat, the District Collector of Ganjam, East Godavari, Vizagapatam. 'Though I do not know the language

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Structural and Optical Properties of ZnTiO₃ Nanoparticles Synthesized by Hydrothermal Method

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Abstract: ZnTiO₃ is a promising wide-energy band gap semiconductor material because of its current and potential uses in catalysts, microwave insulators, luminous materials, nonlinear optics, solar cells, and gas sensors. In the present work, ZnTiO₃ nanoparticles were synthesized by hydrothermal method. The structural properties and parameters have been investigated by using X-ray diffraction (XRD). The XRD results revealed that the particle attributed high phase purity, and good crystalline. The structure of ZnTiO₃ nanoparticles found cubic spinel phase and using the Scherrer equation the average crystallite size was calculated as 31.74 nm. The X-ray peak broadening analysis was used to evaluate the crystalline sizes and lattice strains by the Williamson-Hall (W-H) analysis. The functional group information conforms to the ZnTiO₃ nanoparticles. The FE-SEM images showed the particle shape spherical with partial agglomeration. Furthermore, the optical band gap (E_g) was determined using UV-Visible spectra.

Keywords: XRD, FTIR, UV-Vis, Hydrothermal Method and Optical band gap

1. INTRODUCTION

The development of nanomaterials has been strongly pursued due to their unique features such as electronic, chemical, mechanical, magnetic, and optical properties that differ from bulk materials [1-11]. Size-dependent properties are observed such as surface plasmon resonance in some metal particles, quantum confinement in semiconductor particles, and superparamagnetism in magnetic materials. Among the different nanomaterials, perception of the behavior of ferroelectric materials at the nanoscale is important for the growth of molecular electronics. Indeed, perovskite-phase mixed-metal oxides are significant for their advantageous electrostrictive, pyroelectric, piezoelectric, electro-optic and dielectric properties with corresponding applications in the electronics industry for high-k-dielectrics, actuators, and transducers [12, 13]. Among perovskite-phase mixed-metal oxides, ZnTiO₃ has been reported to have superior electrical properties that are sufficient for applications towards microwave dielectrics [14]. Furthermore, ZnTiO₃ is an effective photocatalyst because this compound is categorized in a group of

coupled photocatalysts that can help to enhance the photocatalytic activity of TiO₂ through reducing recombination process and change band gap to enhance the optical response in the UV to the visible light range [15, 16]. Pure h-ZnTiO₃ represents superior dielectric properties in the microwave range. Many reports have been made to produce pure ZnTiO₃ powders and ceramics. But the synthesis of pure ZnTiO₃ from a mixture of ZnO and TiO₂ with a molar ratio of 1 was not successful. There are various problems with the synthesis of pure ZnTiO₃ powders by the solid-state reaction method such as large particle size, a limited degree of chemical homogeneity, high temperature, and long range of diffusion distance. In the past two decades, the sol-gel route has been successfully used for the preparation of ceramics, thin films, fibers, and glasses; this method has various advantages such as low calcination temperature, low cost, chemical homogeneity, and easy component adjustment. Besides, the sol-gel route is one of the methods for the synthesis of nanomaterials [17, 18]. Here, ZnTiO₃ nanostructures were synthesized by an unusual sol-gel method. Utilizing new and smaller number chemical materials in addition to a simple procedure is the characteristic benefit of this method in assessment to the other reports [19, 20]. In this paper, ZnTiO₃ nanoparticles were successfully synthesized by hydrothermal method. The products were characterized by various analyses such as XRD, SEM, TEM, EDS, FT-IR, and UV-Vis spectroscopy.

2. EXPERIMENTAL

To synthesize the ZT nanoparticles, the starting materials were chosen as Zn(NO₃)₂·6H₂O and TiO₂ (each of 99.9% purity, Sigma-Aldrich). These precursors were mixed after taking their stoichiometric ratio. The whole mixed precursors were transferred to a glass beaker. Furthermore, distilled water was added to the precursors in a ratio of 1:4 (mixed precursors (gm): distilled water (ml)) and the resultant solution was kept on a magnetic stirrer. A stirring rate of 500 rpm was maintained to stir the solution. Later NaOH solution was slowly added, and the pH value reached 11. Furthermore, this solution was transferred to a 500 ml Teflon bowl



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Georgios M. Kontogeorgis, PhD, MSc



Abstract

Ultrasonic velocities and densities have been measured for the ternary system of water, iso-propanol and pyridine as a function of composition at 303.15 K and at atmospheric pressure. From these data, experimental compressibilities and excess compressibilities have been calculated. The excess compressibilities are negative throughout the concentration range of pyridine. These results have been analyzed on the basis of the variations in ultrasonic velocities, compressibilities and excess compressibilities. The presence of weakly bonded alcohol+pyridine structures are noticed in the mixtures of pyridine and iso-propanol. The results are discussed in the light of the formation and breakdown of clathrate-like structures and complexes in binary and ternary mixtures.

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Thermochemistry of nano-phased titanium dioxides relevant to energy application: A Review

Yaowen Wang, Tao Feng, Xinbo Li, Liping Li

Article 100033



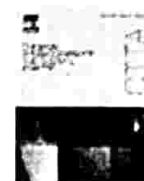
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Abstract

Abstract

Polymorphs of titanium dioxides have found extensive applications in energy fields such as photocatalytic hydrogen generation and batteries. Further research on the thermochemistry of titanium dioxides should be conducted to attain a more detailed understanding of correlations among the steps of synthesis-structure-properties-performance paradigm for achieving controlled functionality. In this review, we briefly highlight important developments in polymorph structures, experimental accesses, stabilities, and thermodynamic data for nano-phased TiO_2 . We emphasize the important roles of surface hydration and structural symmetry on the stability of TiO_2 in the context of photocatalysis and lithium-ions batteries. Because analogues of TiO_2 phases have many important applications, the relevant results summarized in this work may have broad implications for the prediction of functionalities from the viewpoint of



Ultrasonic studies in the ternary mixtures: Water + Iso-propanol + Pyridine at 303.15 K

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ABSTRACT

Ultrasonic velocities and densities have been measured for the ternary system of water, iso-propanol and pyridine as a function of composition at 303.15 K and at atmospheric pressure. From these data, experimental compressibilities and excess compressibilities have been calculated. The excess compressibilities are negative throughout the concentration range of pyridine. These results have been analyzed on the basis of the variations in ultrasonic velocities, compressibilities and excess compressibilities. The presence of weakly bonded alcohol-pyridine structures are noticed in the mixtures of pyridine and iso-propanol. The results are discussed in the light of the formation and breakdown of clathrate-like structures and complexes in binary and ternary mixtures.

1. Introduction

Liquids and liquid mixtures have been widely used in processing and product formulation in many industrial applications. Thermodynamic and transport properties of the liquids provide useful information about physical forces acting between the molecules of the same substance in pure liquids and molecules of different substances in liquid mixtures.

Properties such as speed of sound or surface tension and their variation with temperature and composition of the ternary mixture are useful to design engineering processes and in chemical and biological industries. Moreover, a survey of literature has shown that there are no reports on experimental data on speeds of sound in ternary system consisting of water, iso-propanol and pyridine. In addition, alkanols and pyridines were widely used in a variety of industrial and consumer applications and hence, knowledge of their physical properties is also of great importance from a practical point of view.

In recent years, much effort has been made with the measurement and interpretation of the ultrasonic properties of liquids and liquid mixtures. The ultrasonic studies are of great importance in helping to understand the nature and extent of the patterns of molecular aggregation that exist in liquid mixtures, resulting from intermolecular interactions [1–5].

The measurement of the speed of sound is the only direct method to determine the isentropic compressibility, which then provides further access to related thermodynamic properties of the liquids and liquid mixtures. Speed of sound measurements are one of the widely used

techniques in the investigation of liquids and are essential in construction and for the validation of fundamental equations of state [6]. As the speed of sound is related with the thermodynamic properties of liquids, the absorption of ultrasound waves explores the energy dissipation caused by different irreversible processes taking place in liquids during propagation of ultrasound waves. Studies on acoustic properties contribute significantly to improve the knowledge of the microscopic and macroscopic properties of liquids in mixtures. Recently, many researchers [7–10] have studied the acoustic properties of ternary liquid mixtures at different temperatures and also the applications of ultrasonic waves in improved oil recovery in oil and gas industry.

Intensive research work based on sound velocity measurements has long been carried out to investigate the behaviour of liquids and liquid mixtures. The non-linear behaviour of ultrasound velocities, isentropic compressibilities and related parameters of liquid mixtures with changing mole fractions is attributed to the difference in size of the molecules and strength of interaction. Ultrasound study of thermodynamic properties of binary liquid mixtures has been made by several authors. The work is scanty in ternary mixtures. Ultrasonic studies in ternary systems are presented in this research article.

In the present investigation, ternary system consisting of water, iso-propanol and pyridine has been studied in detail at 30^o C. Ultrasonic velocities and densities are measured and from this data, adiabatic compressibilities are estimated. The variations in the ultrasonic velocities, compressibilities and excess compressibilities are discussed as a function of composition of the ternary mixture. Throughout the work the concentration of one of the component is varied keeping the mole ratios

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Preparation and Characterization of Sodium Alginate-reduced Graphene Oxide Microbeads for Co-Delivery of Doxorubicin and 5-Fluorouracil

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Abstract

Combination therapy has gained significant interest in recent years due to its potential to produce greater therapeutic success than mono-drug therapy. However, carriers capable of effective and stimuli-responsive co-delivery of several drugs are severely lacking at the time. To address this need, the study represents the fabrication of reduced graphene oxide-sodium alginate microbeads for co-delivery and controlled release of doxorubicin (DOX) and 5-fluorouracil (5-FU). The developed beads were characterized by Fourier transform infrared spectroscopy (FTIR), Differential scanning calorimetry (DSC), Thermogravimetric analysis (TGA), X-ray diffraction (XRD) and Scanning electron microscopy (SEM). Swelling and in vitro drug release experiments were performed at pH 7.4, 5.4 and 1.2 at 37 °C.

The findings indicated that the pH of the test media could be appropriate for intestinal drug delivery. The release process was studied with the release data being integrated into the Korsmeyer-Peppas equation. The presence of rGO in the polymeric matrix influences the drug release rate. The anticancer activity of the alginate beads was assessed using an MTT assay against MCF-7 cells. The findings indicate that the dual-drug containing microbeads showed good activity compared to 5-FU loaded microbeads. The results showed that the developed microbeads warrant further development for applications that require simultaneous administration of multiple bioactive agents.

Keywords: Microbeads, 5-Fluorouracil, Anti-cancer activity, Graphene oxide.

Introduction

Cancer is a significant cause of death in humans. According to estimates, cancer is the number one leading cause of death in the present day and kills tens millions of people every year^{1,2}. Cancer incidence and mortality rates have increased in many parts of the world over the past few decades, especially in developing countries. Cancer treatments have very low therapeutic efficacy and a high level of side effects which have limited their applications due to multiple drug

resistance (MDR) effects, low efficiency of cellular uptake and nonspecific distribution in the body³. Therefore, an effective strategy against cancer cells requires a combinatory approach. In recent years, a great deal of attention has been paid to the design of targeted delivery by polymer functionalized graphene oxide for cancer therapy²¹.

In recent years, there has been an immense potential in the use of polymeric matrices for targeted drug delivery due to their natural abundance, lack of toxicity, biocompatibility and biodegradability⁷. Carriers for bioactive agents (hydrogels, microparticles and nanoparticles) are often made of polymeric materials. In general, natural polymers are more biodegradable and less hazardous than synthetic polymers¹⁵. Until recently, a wide array of drug-delivery methods has been developed and published in the literature^{6,24}. Nevertheless, the majority of them are intended for single-drug delivery. They are either incapable of efficiently loading several agents or lack the capability to accurately control the release rate of each co-delivered agent^{11,20}. This limits their utility in multi-drug therapy. The purpose of this study is to design a carrier capable of addressing this technical gap and enabling the co-administration of doxorubicin (DOX) and 5-fluorouracil (5-FU).

Sodium alginate (SA) is a linear anionic polysaccharide composed of randomly 1→4 connected β-(D)-guluronic (G) and α-(L)-mannuronic (M) acids. SA is among the most commonly encountered anionic polymers in biomedical applications due to its ability to dissolve, biocompatibility, hydrophilicity, biodegradability, safety and favourable drug delivery properties^{18,19}. Despite polymers, research focus on GO has turned more significantly towards development of using the versatility of the material for medicinal purposes due to the many acid groups available on the GO surface for linking to various other compounds²¹.

Additionally, GO is two-dimensional as well as being large in area. This is absolutely essential for the adsorption of molecules on the GO sheets^{1,8}. Unlike GO, reduced graphene oxide (rGO) has a planar structure which improves the efficacy of drug encapsulation^{3,26}.

Additionally, rGO has greater bioactivity and thus can serve as a drug carrier^{9, 22}. It was shown in a previous study¹⁰. DOX has been found to interact more with rGO because

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Application of heat transfer on MHD shear thickening fluid flow past a stretched surface with variable heat source/sink

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Abstract

The purpose of this study is to explore the viscous dissipation stimulus on the steady convective magneto-hydrodynamic shear thickening liquid stream across a vertically stretched sheet. The impact of thermic heat, first-order velocity slip, and variable heat generation/absorption are considered and also ignored the effect of magnetic Reynold's number. We converted flow controlling equations into the set of dimensionless nonlinear ordinary differential equations by employing similarity variables to solve these coupled equations by R-K and shooting technique. The effect of different dimensionless variables on velocity, heat, friction factor, and local Nusselt numbers are presented through graphs and tables. Depreciation in velocity and growth in temperature distribution is detected when the Casson fluid parameter is increased. Temperature is the increasing function of the Eckert number.

KEYWORDS

Biot number, numerical solution, thermic heat, velocity slip, viscous dissipation

1 | INTRODUCTION

If a fluid contains nanometer-sized particles, then it is termed a nanofluid. Due to its highest heat transfer nature, most researchers are concentrating on this rich area of investigation. This technology is applied for boosting heat transport properties in the areas such as electronics, biomedical, chemical engineering, solar energy collectors, smart delivery of drugs,



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Effect of non-linear thermal radiation on MHD Casson fluid flow past a stretching surface with chemical reaction

K. Anantha Kumar^a, A. C. Venkata Ramudu^{b,c}, V. Sugunamma^b and N. Sandeep^d

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ABSTRACT

The analysis is accomplished to discover the innovation of an incompressible magnetohydrodynamic Casson liquid flow driven by a stretchable sheet with convective boundary conditions. The variations of non-linear thermal heat, chemical response and unequal heat absorption/generation are reserved into account. The flow reckonings are mutated into a scheme of dimensionless non-linear ODEs with appropriate similarity variables. The elucidation of the problem is attained by captivating the help of the fourth-order RK-based shooting procedure. The bearings of influential parameters on velocity, thermal and solutal fields are revealed with the assistance of diagrams and also the physical measures skin friction, local solutal and thermal heat transport are revealed in a distinct chart. Escalating the non-linear thermal radiation parameter as well as the temperature ratio restriction escalates the fluid temperature. The rate of mass transport is extraordinary for the increase of chemical response parameter and Schmidt number.

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Heat and mass transfer;
aligned magnetic field;
irregular heat source/sink;
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1. Introduction

The study on mass and thermal transport under the influence of chemical response has fascinated numerous investigators owing to its significant importance in diverse areas of technology and science. There are abundant applications in energy engineering, pollution of groundwater, disposal of chemical impurities in saturated sludge, geophysical, petrochemical industry, power as well as cooling systems, design of heat exchangers, systems of MHD power generation, food processing, electrical tools, cooling systems of nuclear reactors, filtration as well as textile engineering. Bég, Bakier, and Prasad (2009) investigated the cross-diffusion belongings on MHD mass and thermal transfer on Newtonian fluid alongside a stretched surface. The effect of mass and thermal transfer on the blood flow of viscous liquid in a perpendicular annulus with the radially varying magnetic field was investigated by Nadeem and Akbar (2010). Khan, Irfan, and Khan (2017) scrutinised the influence of time-independent 3D Carreau nanofluid with mass transfer mechanisms. The result of mass plus thermal transport on electrically conducting nanofluid flow towards an oscillating vertical sheet is explored by Sheikhholeslami, Kataria, and Mittal (2018). Mass and thermal transfer of buoyancy by the variable thick surface of revolution with permeable medium assuming radiation as well as Buongiorno's model was analysed by Raju et al. (2018). Li et al. (2019) illustrated the heat transmission of MHD nanofluid flow across a penetrable duct with the lattice Boltzmann technique.

Radiation plays a pivotal part in surface of heat transfer when the factor of convectional heat transfer is merely low. Its applications are found in polymer production, regulation

of heat transfer mechanism by thermal radiation, fluids overstretching surfaces, glass manufacturing industry and heartn are some applications in engineering as well as in industry. For local and global thermal differences, the Roseland non-linear radiative motion is valid. Reddy, Sugunamma, and Sandeep (2016) discussed the impact of non-linear radiative heat for time-independent MHD flow enclosed by two aligned parallel plates in the existence of heterogeneous-homogeneous chemical responses. The impact of nonlinear thermal radiation on the hydrodynamic flow of Jeffery dusty fluid via an absorbent channel (pipe) was explored by Bhatti et al. (2017). Makinde and Animasaun (2016) explored the bio-convection of a magnetohydrodynamic nanoliquid flow through an aligned paraboloid of revolution with the chemical reaction as well as non-linear thermal radiation. The MHD nanomaterial thixotropic stagnated flow past a variable stretchable sheet is elucidated by Hayat et al. (2019). The influence of non-linear heat on varied convection 2D electrically conducting Casson liquid flow in a porous medium is analysed by Mittal and Patel (2020). Brownian moment bearing is also taken into consideration. Mittal (2022) examined the influence of radiation as well as magnetic field on time-dependent nanoliquid flow past betwixt two horizontal squeezing sheets.

The liquid flow past a stretching sheet plays a pivotal role in the area of fluid dynamics due to its large-scale applications such as extrusion, polymer sheets manufacturing, hot rolling, Newtonian and non-Newtonian fluids with the combination of concepts like electrical and magnetic fields, problems with different boundary conditions in the stretching sheet. Makinde and Aziz (2011) explained numerically the convective boundary

stream in a nanoliquid across a stretchable sheet. The 3D water-based boundary layer nanoliquid flow towards an exponentially stretchable sheet is analysed by Nadeem, Haq, and Khan (2014a, 2014b). Mehmood et al. (2017) described the problem of inclined stagnated flow of Jeffery nanofluid past a stretched surface. The influence of radiation on heat transfer of 3D nanoliquid flow between two equidistant plates via a porous medium is studied by Sheikholeslami, Kataria, and Mittal (2017). A mathematical model is improved for the effects of radiation as well as a chemical response on MHD flow of an upper convective Cattaneo–Christov heat flux model with mass and heat transport in a porous permeable stretched sheet is presented by Shahid et al. (2018). Mittal, Patel, and Darji (2019) discussed the 2D mixed convection electrically conducting micropolar ferroliquid flow past a stretching sheet.

The concept of magnetohydrodynamics has a vital role in convective mass and heat transport in technology, manufacturing such as geothermal study, conservation of nuclear wastages, the study of chemical wastage and spreading and control of pollution, formation of magnetohydrodynamic power generators, minimisation of bleeding in surgeries and import of drug by using of magnetic particles like drug carriers to a specified area are its applications. Makinde and Aziz (2010) discussed the impact of convective boundary restrictions on the electrically conducting flow towards a plate confined vertically in a porous medium with heat and mass transfer. The influence of magnetohydrodynamics on boundary layer stream across a stretching surface is examined numerically by Makinde and Aziz (2010). Kumar et al. (2018) explained the heat transport performance on the electrically conducting flow past non-identical geometries along with non-uniform heat generation/absorption with Cattaneo–Christov flow. The theoretical analysis of time-independent Prandtl-liquid flow past an isothermal sphere with slip is proposed by Amanulla et al. (2019). The unsteady MHD flow over an oscillating vertical sheet in the attendance of a magnetic field is investigated by Kataria and Mittal (2015). Kataria and Mittal (2017) explored the effects of magnetic field on the free convective flow of a nanofluid on an oscillating vertical plate in a porous medium.

The liquids which are not following the Newton's laws of viscosity are termed as non-Newtonian liquids. Blood, honey, tomato juice and shampoo are some non-Newtonian fluids. Non-Newtonian fluids attract researchers due to several applications in technology as well as in industry. Such applications are plastic polymers, manufacturing of paper, cooling of metallic plates in a cooling tub, optical fibres, etc. Bég et al. (2008) scrutinised the computational solution for 2D micropolar, bio magnetic (blood) flow and heat transmission via a 2D Darcian porous medium. Tripathi, Yadav, and Bég (2017) investigated the peristaltic pumping of a non-Newtonian electro-osmotic flow into a deformable micro-channel. The steady magnetohydrodynamic natural convection flow of Casson ferrofluid past different geometries was studied by Ali and Sandeep (2017). The simultaneous solutions on the MHD Casson fluid over a vertical stretching sheet in the existence of variable heat generation/absorption are deliberated by Ramudu et al. (2020). Mittal and Kataria (2018) examined the 3D CuO-water nanoliquid flow betwixt two equidistant plates via a porous medium. The magnetohydrodynamic micropolar nanoliquid flow past

a stretching surface is elucidated by Patel, Mittal, and Darji (2019).

In any chemical response, the combination of two or many chemical compounds produces one or many chemical compounds. Several chemical reactions require heat and catalyst (accelerator). If the catalyst is in the same state, the reaction is the homogenous catalytic reaction. Examples of the homogeneous reactions are reactions between any two gases and reaction between two liquids, etc. If the reactants, as well as catalyst, are in different states, then the reaction is called a heterogeneous reaction. Reaction between gas and liquid, liquid and solid and solid and gas are examples of heterogeneous reactions. Its applications are used in the petrochemical industry, geophysics and MHD power generation systems. Hayat, Abbas, and Sajid (2008) explored the influence of mass and heat transport for the flow of a second-grade liquid with chemical reaction past a sheet. The effects of heat as well as chemical reaction for Walter's B liquid on the blood stream via a tapered artery are analysed by Nadeem and Akbar (2011). Makinde, Olanrewaju, and Charles (2011) explained the influence of radiation and chemical response on time-dependent viscous fluid with convection towards a perpendicular porous permeable sheet. The influence of chemical response on the electrically conducting flow of Casson liquid in the existence of a stretching cylindrical region with heat source/sink is illustrated by Rehman et al. (2017).

The present investigation is focused on the impact of chemical response and non-linear radiative heat on MHD Casson liquid flow driven by a stretching surface by making use of previous research papers. We employed R. K. and shooting procedure to solve the problem. The effect of dimensionless variables like non-linear radiative heat, temperature ratio, chemical reaction, magnetic field, Casson fluid, irregular heat source/sink parameters, Prandtl, Schmidt, Grashof numbers on velocity, temperature and concentration are illustrated through graphs and elaborately verified. We also analysed the influence of the above-mentioned parameters on friction factor, Nusselt number and Sherwood number.

2. Formulation of the model

Let us ponder a time-independent, laminar-free convective electrically conducting Casson liquid flow across a stretchable sheet with a chemical reaction. The influence of non-linear thermic heat and variable heat sink/source is considered. $u_w(x) = ax$ is the stretching velocity along the x -direction is exerted as shown in Figure 1, here the rate of the initial stretching is a . In the reverse way to the flow $B = B_0$, the strength of aligned magnetic field is exerted.

$$\frac{\partial v}{\partial y} + \frac{\partial u}{\partial x} = 0, \quad (1)$$

$$v \frac{\partial u}{\partial y} + u \frac{\partial u}{\partial x} = \nu \left(1 + \frac{1}{\beta} \right) \frac{\partial^2 u}{\partial y^2} + g \rho \beta_T (T - T_\infty) - \frac{\sigma B_0^2 \sin^2(\theta^*)}{\rho} u, \quad (2)$$

$$\rho C_p \left(u \frac{\partial T}{\partial x} + v \frac{\partial T}{\partial y} \right) = k \frac{\partial^2 T}{\partial y^2} - \frac{\partial q_r}{\partial y} + q''', \quad (3)$$

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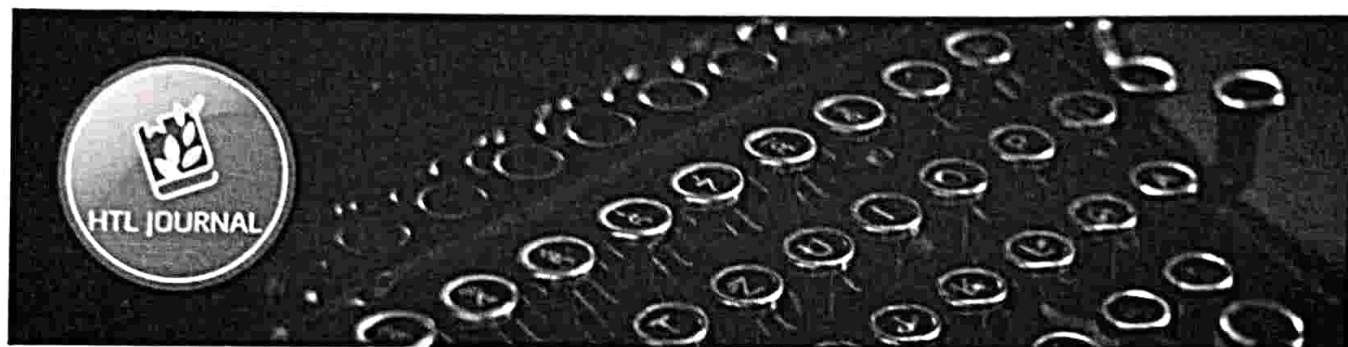
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Assessment of Trace metals pollution in Groundwater of rural Visakhapatnam, Andhra Pradesh, India utilizing Heavy metal Pollution Index – A case study

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Abstract:

The abnormal concentration of trace metals in groundwater can impact health in a huge way; an anomalous quantity of trace metals in groundwater is a big issue nowadays. The source of trace metals in groundwater is many ways, such as mining, industrial operations, agricultural activities, and primly domestic wastewater. The main objective of the present study is to estimate the trace metals and evaluate groundwater quality utilizing the heavy metal pollution index (HPI). For this study groundwater samples were collected from Lankelapalem, chinatadi, tanam, parawada, bottavanipalem, jallelapalem, chintalagorlavanipalem, and pinamadaka villages of Visakhapatnam, Andhra Pradesh, India during the period of pre-monsoon (April) and post-monsoon (September) seasons of 2021 as study area is the very close proximity to the industrial area. For calculating HPI, the results of Aluminum, Barium, Cadmium, Chromium, Copper, Iron, Nickel, Lead, Arsenic, and Zinc were taken. The mean concentration level of trace metals is in the following sequence: $Zn > Ba > Fe > Al > Cu > Ni > Cd > Cr > Pb > As$. The groundwater at station BS29 & BS30 have crossed the standards. Cadmium metal is the major contributor in HPI calculations in this area. Cadmium (Cd) is an exceptionally toxic pollutant. The concentration of Zinc is raised in the post monsoon season at few stations. It infers that the water is not suitable for direct consumption, and it needs to be protected from the perils of contamination.

Keywords: Groundwater, Heavy metal Pollution Index, Cadmium, Health effects, ICP-MS.

I. INTRODUCTION

Water is an indispensable element in nature, in that freshwater is convenient for the survival of life on the earth; there is no substitute for water for its uses¹. The good quality of water is spoiled by contaminated water, it also damages the communal prosperity, and growth of the economy, and most seriously damaged human health. Before the industrial revolution, surface, as well as groundwater quality, is good enough. From the 18th century onwards,



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- కంకం భోస్లే, ఆంధ్రప్రదేశ్ నాటకాల, ఎస్సెఎస్ఆర్ ప్రభుత్వ డిగ్రీ కళాశాల, ప్రొద్దుటూరు.

కావ్య ప్రయోజనములు :

'భామహుడు' కావ్య ప్రయోజనాన్ని ఇలా నిర్ణయించాడు.

శ్లో ధర్మార్థ కామ మోక్షేషు, వైచక్షణ్యం కళానుచః
ప్రతిం కరోతి కీర్తిం చ, సాధు కావ్య నిషేవణం॥

మంచి కావ్యాన్ని పఠించటం వలన ధర్మార్థ కామ మోక్ష విషయక విచక్షణ జ్ఞానం కలుగుతుంది. కళలలో వేర్వేరు ప్రీతి, కీర్తి లభిస్తుంది. అలాగే 'మమ్మటుడు' కావ్య ప్రయోజనాన్ని గురించి ఈ విధంగా నిర్వచించాడు.

శ్లో కావ్యం యశసే ర్థ కృతే, వ్యవహారవిదే శివేత
రక్షతయే॥

సద్యః పఠనిర్వృతయే, కాంతా నమ్మిత తయోవ
దేశయుజే॥

కావ్యం వలన యశస్సు, ధనలాభము, వ్యవహార జ్ఞానము కలుగుతాయి. అమంగళాలను తొలగిస్తుంది. పఠించిన వెంటనే పఠనిర్వృతి ప్రాప్తిస్తుంది. అలాగే కాంతా సమ్మితంగా ఉపదేశయుక్తి ఉంటుంది. ఈ విధంగా కావ్యములు ఆనందప్రదాలే కాకుండా ఉపదేశాలను కూడా అందిస్తూ, ప్రజల వ్యక్తిత్వ వికాసానికి తోడ్పడటమే కాకుండా, సమాజ శ్రేయస్సుకు కూడా కారణ భూతాలవుతున్నాయి.

ఆంధ్రమహాభారతము - సామాజిక శ్రేయస్సు :

పంస్పృశంలో పేదవ్యాస మహర్షి దాదాపు లక్ష శ్లోకాలతో రచించిన మహాభారతాన్ని, కవిశ్రయమని తెలుగు భాషలో పేరుగాంచిన 'నన్నయ, తిక్కన, ఎర్రన'లు రచించిన విషయం మనందరికీ తెలిసిందే. తేనెలోలుకు తెలుగు భాషలో మహాభారతాన్ని అనువదించి, మన తెలుగు వాటికి మహిమకారము చేసినారు కవిశ్రయము వారు. యావత్ ప్రపంచంలోనే అతిపెద్ద ఇతిహాసముగా

పేరొందిన మహాభారతము మానవ జీవితాన్ని ఎలా మలచుకోవాలో నేర్పిస్తుంది. పృష్ఠా పృథ్వీల వికాసానికి తోడ్పడుతూ, తద్వారా సామాజిక చైతన్యానికి, సమష్టి తత్వానికి దోహదం చేస్తుంది భారతం.

మహాభారతం వివిధ ఆఖ్యాన ఉపాఖ్యానాల ద్వారా మనకు ఎంతో విజ్ఞానాన్ని, ఆనందాన్ని, సీతని, సమాజ శ్రేయస్సును బోధిస్తుంది. ఆందులోని కొన్ని ముఖ్య ఘట్టాలను పరిశీలించి, వివరించటమే ఈ పత్ర సమర్పణ ఉద్దేశ్యము.

ఏక చక్రపురంలో పాండవులు, కుంతీదేవి ఎవరికీ తెలియకుండా, బ్రాహ్మణ వేషంలో రహస్యంగా జీవిస్తూ ఉండగా, తమ ఇంటి యజమానికి వచ్చిన కష్టాన్ని గురించి తలచి, కుంతీదేవి-

కం. కృతమేజగుట పుణ్యఁ, న
న్మతి దానికి నమముసేత మధ్యము; మజిత
త్పృతమునకగ్గలముగ న
త్పృతి సేయుట యుత్తమంబు కృతబుద్ధులకున్
(ఆ.6.244)

బుద్ధిమంతులైన వాళ్లు ఎదుటివాళ్ళు చేసిన ఉపకారాన్ని గుర్తించటమే గొప్ప పుణ్యకార్యం. మంచిబుద్ధితో దానికి సమానమైన ప్రత్యుపకారం చేయటం మధ్యమ మార్గం. అట్లాకాక చేసిన ఉపకారం కంటే ఎక్కువగా ప్రత్యుపకారం చేయటం ఉత్తమ వర్తతి అని ఆలోచన చేసి, వారి సమస్య తీర్చుతుంది. చేసిన మేలు మరచి, కృతఘ్నతతో జీవించే మనుష్యులకు కృతజ్ఞతా భావం యొక్క గొప్పదనాన్ని చెబుతుంది ఈ సందర్భం.

లోకంలోని సాధుజనులను, వీరలను రక్షించవలసిన బాధ్యత అందరికీ ఉంది. ముఖ్యంగా ధనవంతులైన వారికి ఈ బాధ్యత మరి ఎక్కువ. ఏ సమాజం నుండి

శ్రీకృష్ణదేవరాయ విశ్వవిద్యాలయం - ప్రత్యేక సంచిక, అనంతపురం.



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అనంతపురము - 515 003, ఆంధ్రప్రదేశ్, ఇండియా.



భాషావిజ్ఞాన ప్రత్యేక గ్రంథాలేఖ

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- వంకం భీష్మ, ఆంధ్రప్రదేశ్ నకులు, ఎస్ సి ఎస్ ఆర్ ప్రభుత్వ డిగ్రీ కళాశాల, ప్రొద్దుటూరు.

1930 ప్రాంతాల్లో ప్రపంచమంతా ఆర్థికమాంద్యంతో విలవిలలాడుతున్న సమయంలో 1934 నుండి 1940 మధ్యకాలంలో తాను రాసిన కవితలలో 'మహాప్రస్థానం' మనే గేయ సంపుటిగా వెలువరించినాడు శ్రీశ్రీ. ప్రపంచ వ్యాప్తంగా మానవులు ఎదుర్కొంటున్న బాధలను ప్రధాన ఇతివృత్తంగా స్వీకరించి గేయాలను రచించాడు. 1950లో మొదటిసారిగా ఇప్పుడున్న రూపంలో ప్రచురించటానికి తన స్నేహితుడు నళిని కుమార్ ఆర్థికంగా, హార్డికంగా సహాయపడినాడు. చిన్న వయసులోనే అకాలమరణం పొందిన తన స్నేహితుడు 'కొంపెల్ల జనార్ధనరావు'కు అంకితమిచ్చాడు. చలం ఈ గ్రంథానికి రాసిచ్చిన 'యోగ్యతాపత్రం' మరింత వన్నె తెచ్చింది. శ్రీశ్రీ రచనలంతా కవితాత్మకంగానూ, శక్తిమంతంగానూ, మనోరంజకంగానూ చలమిచ్చిన యోగ్యతా పత్రం ఉండటం ఈ సంపుటికి మరో లక్షణం. లండన్ లోని డాక్టర్ గూటాల కృష్ణమూర్తి విదేశాంధ్ర ప్రచురణాలయం శ్రీశ్రీ సొంత దస్తూరితో గొంతుతో ఈ గేయాలను అక్షర ధ్వనిరూపాల్లో ప్రచురించింది.

ఇంత గొప్ప కవితా సంకలనాన్ని గురించి కొంత వివరించటం సమంజసము. అంకిత భాగం కాక సంపుటంలో 40 కవితలున్నాయి. అందులోని మొదటి గేయం 'పేరునే సంపుటికి శీర్షికగా పెట్టారు. ఎడ్గార్ అలాన్ పో కవిత్వం 'ది బెల్' చదివి, ఆవేశంతో రాసినది 'మహా ప్రస్థానం'. ఇందులోని "కదం త్రొక్కుతూ, పదం పాడుతూ, హృదంతరాళం గర్జిస్తూ... దారి పాడుకున్నా గుండె నెత్తురులు తర్పణ చేస్తూ పదండి ముందుకు! పదండి త్రోసుకు, పొదాం, పొదాం పైపైకి" అని "నెత్తురు మండే శక్తులు నిండే" సైనికులకు బోధించాడు. "హరో హరో హరో హరో హరో హరో హరో హరో హరో హరో" అని

యుద్ధోత్సాహంతో కదలమన్నారు. అప్పటి నుండి ఎన్నో సభల్లో ఈ కవిత పాట మారుమోగుతూనే ఉంది.

'జయభేరి' కవితలో మొదటి తొమ్మిది పంక్తులనూ, అంతంలోకి వచ్చేసరికి మార్చి రాశాడు. "నేను సైతం ప్రపంచాన్ని సమీధనాకృతి ఆహుతిచాసే"న్నాడు. భువనభూషకు వెర్రిగొంతుకలిచ్చి మోసిన తాను భువన భవనపు బావుటాపై పైకి లేస్తానన్నాడు. రెండవ ప్రపంచ యుద్ధకాలం నాటి ఏవో భూషలను తన 'అభ్యుదయం' కవితలో వినిపించాడు. మరణించిన యువ యోధుల బల వితర్కి నుంచి నరజాతికి పరివర్తన నవజీవన శుభసమయం ఆసన్నమవుతుందని ఆశాభావం వ్యక్తం చేశాడు. 'అవతారం' గేయం పౌరాణిక ప్రతీకలతో నిండి, నూతన శకాన్ని ప్రారంభించడాన్ని సూచిస్తుంది. "యముని మహిషపు లోహ ఘంటికలు, ఉదయ సూర్యుని సప్తహయములు. కనక దుర్గా చండ సింహం, ఇంద్రదేవుని మదపుటేనుగు, నందికేశుడు, ఆది సూకర వేదవేద్యుడు" తమ తమ న్యభావాలను ప్రదర్శించిన తర్వాత, ఉత్పాతం జరిగిన తర్వాత "పుడమితల్లికి పురుటిసప్పులు కొత్తసృష్టిని సృరించాయని" నిశ్చయించాడు. 'నవ్య కవితాన్ని' వివరించే తర్వాతి గేయం అందుకు కావలసిన వస్తువులను కూడా వివరిస్తుంది. ఆధునిక కవితా రచనకు కావలసిన వస్తువునూ, ధర్మాన్ని కూడా వివరించాడు శ్రీశ్రీ. సింధూరం, రక్త చందనం, బంధూకం, రుద్రాలిక నయన జ్వాలిక, ఘటెక్కిన గంధక చూమం, రగులుకావే రాక్షస బొగ్గు, రాబందుల రెక్కల చప్పుడు, హరింద్ర గర్జన, పయోధర ప్రచండ ఘోష, ఖడ్గమృగ విరావం, ఝంఝా నిలం మొదలైన లక్షణాలతో "కదిలేదీ, కదిలించేదీ, మారేదీ మార్పించేదీ, పాడేదీ పాడించేదీ, పెను నిద్దుర వదిలించేదీ, మును ముందుకు సాగించేదీ, పరిపూర్ణపు

మహాకవి శ్రీశ్రీ జీవితం-సాహిత్యం, శ్రీకృష్ణదేవరాయ విశ్వవిద్యాలయం - ప్రత్యేక సంచిక



ప్రభుత్వ మహిళా కళాశాల (స్వ.ప్ర.)

గుంటూరు, ఆంధ్రప్రదేశ్



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అంతర్జాతీయ అంతర్జాల సదస్సు

జాతీయోద్యమం - అనుభవాలు, జ్ఞాపకాలు, సాహిత్యం

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మూసీ ప్రత్యేక సంచిక

సాహిత్య సాంస్కృతిక చారిత్రక మాస పత్రిక



నిర్వహణ

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జాతీయోద్ధేయం - జనసభావాలు, జ్ఞాపకాలు, సాహిత్యం

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సంస్కరణోద్యమం - కథా సాహిత్యం

మంజు భాస్కర్, అంధ్రోపన్యాసకులు, ఎన్.సి.ఎస్.ఆర్. ప్రభుత్వ డిగ్రీ కళాశాల, ప్రొద్దుటూరు

సంస్కరణోద్యమం సందర్భంలోనే 'కథానిక' అనే ప్రక్రియ వచ్చింది. స్త్రీవిద్య, బాల్య వివాహాలు, వితంతు వివాహాలు, కులతత్వం, వేశ్యాసమస్య మొదలైన ప్రధానాంశాలతో, కొంచెం, అటూ ఇటూ భారతీయ భాషలన్నింటిలోనూ 'కథ' ప్రారంభమైంది. కేవలం సంఘసంస్కరణోద్యమంలోనే కాక, తర్వాత వచ్చిన అభ్యుదయోద్యమ కాలంలోనూ వికసించింది. నేటికీ వికసిస్తూనే ఉంది.

(1) అస్సామీ:- అధునిక కథ అస్సామీలో 'లక్ష్మీనాథ్ బరువా' శరశుంద్రగోస్వామి మొదలైనవారు సంస్కరణోద్యమంతో కథారచన చేశారు. ఒక కథలో- భర్త ప్రవాసంలో ఎక్కువకాలం ఉండిపోగా, భార్య వివాహేతరసంబంధం పెట్టుకున్నప్పుడు, తిరిగి వచ్చిన భర్త ఆమె ప్రవర్తనను అర్థంచేసుకొని, క్షమించినట్లు కూడా" చిత్రించారు. తర్వాతి కాలంలో లక్ష్మీధర్ శర్మ అనే రచయిత స్త్రీస్వాన్ని అభ్యుదయోద్యమంతో అలోచించి, సంస్కరణభావాలను పంచాడు.

(2) ఒరియా:- ఒరియాలో 1898 లో కథానిక వచ్చింది. ఫకీర్ మోహన్ సేనాపతి రచయిత. ప్రధానంగా ఈ రచయిత ఒరియాభాషపై బెంగాలీభాష పెక్కువాన్ని నిరసిస్తూ, ఒరియా స్వయంప్రతిపత్తిని కాపాడాడు. పత్రికలు కూడా సంస్కరణభావాలను బాగా ప్రచారం చేశాయి.

(3) కన్నడ:- కన్నడంలో కథ 1900 లో ప్రారంభమైంది. ఎం.ఎస్.కామత్, 'ముంగేకరావు'లు కథానికకు అంకురార్పణ చేశారు. పామాన్యని జీవితం వట్ల నిరంతర శ్రద్ధ కలిగిన రచయితగా, జ్ఞానపీఠ అవార్డు గ్రహీత 'మాస్తి వెంకటేశ్ అయ్యంగార్' కవినిస్తాడు, ఈయన తన కథల్లో అట్టడగువర్ణన, కథలను, గ్రామీణజీవితంలోని అనేక విషయాలను స్ఫురించారు.

(4) గుజరాతీ:- గుజరాతీలో తొలి కథకుడు 'దల్పతరామ్' చాలా కథలు రాశారు. తొలితరం కథారచయితల్లో ప్రధాన విశేషం-స్త్రీరచయిత్రులు చాలామంది ఉండడం. మమతి, ఊర్మిళ, అరవింద, శారదాబెన్ మెహతా మొదలైన రచయిత్రులు స్త్రీజనోద్ధరణ కేంద్రంగా కథలు రాశారు.

(5) తమిళం:- తమిళంలో చిన్నకథను తీర్చిదిద్దిన ఘనత 'అయ్యర్' కే దక్కుతుంది. అయ్యర్ సమకాలికుడైన మాధవయ్య అనాది సాంఘిక దురాచారాలను ఖండిస్తూ, మార్పును కోరుకుంటూ రచనలు చేశాడు. సుబ్రహ్మణ్యభారతి కూడ టాగోర్ కథలను పదకొండింటివి తమిళంలోకి అనువదించారు. స్త్రీ చైతన్యాన్ని తన కథల్లో ప్రతిపాదించిన మరో రచయిత డి.జి.రంగనాథన్. ఆయన రాసిన 'నాండ్రిక్కి' (కుందీ చిలుక) కథ అచారాలను ధిక్కరించిన ఒక బాలికను గూర్చి చెబుతుంది.

(6) బెంగాలీ:- 1877 లో టాగూర్ రాసిన 'క్షుధిత పాషాణ' కథ వారి కుటుంబపత్రికలో ప్రచురింపబడింది. అయితే అధునిక కథాంక్షణాలు కలిగిన 'కథ' లింగించంద్ సోదరుడు పూర్ణచంద్ ఫటర్సీ రాసిన 'మధుమతి'. కానీ అందరూ తొలికథారచయితగా టాగూర్నే గుర్తిస్తూన్నారు. కథారచన బెంగాలీలోనే కాకుండా, భారతదేశమంతటా టాగూర్ తోనే ప్రారంభమైందని చెప్పవచ్చు. టాగూర్ తన కథల్లో మానవసంబంధాల్లోని అతిసున్నితమైన అంశాలను అవిష్కరించారు.

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The latest violent assault on security personnel in Chhattisgarh's Dantewada district has shocked the entire nation. Ten police personnel and the vehicle in which security personnel was traveling were killed in the attack planned by the Naxalite-Maoists Group. Interestingly, that Naxalite-Maoists frequently conduct their "Tactical Counter Offensive Campaigns" (TCOC) from March to June nearly every year. A major incident occurred on April 3, 2021, when 22 security personnel were killed in an ambush along the border of the Sukma district. On March 21, 2020, a Naxal ambush in the Minpa neighborhood of the Sukma district resulted in the deaths of seventeen Re

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Socio-Economic Conditions of Women Workers in Unorganized Sectors

S.B. Sreerama Naik*

[The number of women in the unorganized sector is many times more than that in the organized sector because of their helplessness due to lack of employment opportunities, limited skills, illiteracy and restricted mobility. Labour laws do not govern the unorganized sector. Women comprise half of the world's population and perform the two-thirds of the work, but earn only a third of the total income and own less than a tenth of the resources. The most discriminated people in the world are usually the ones who lack economic power. The paper is a case study on the women workers of construction sector in Kurnool and Anathapur and agricultural sector in Kadapa and Chittoor districts.]

The term 'unorganized labour' has been defined as those workers who have not been able to organize themselves in pursuit of their common interests due to certain constraints like casual nature of employment, ignorance and illiteracy, small and scattered size of establishments, etc. The unorganized workers account for about 93 per cent of the total workforce and there has been a steady growth in their population in India over the years.

Women in Unorganized Sectors

According to the 2001 Census about 90 percent of women workers in India are in the unorganized sector. Women enter the market as wage earners but occupy secondary position in the labour workforce. Their significance is considered marginal. They enter the labour market only when the economic compulsions force them to supplement the meagre family earnings. This perception of women's work as supplementing or balancing force in the family and the nation's work force has made them susceptible to all sorts of discriminatory treatment and exploitation (physically, economically and socially) in the field of employment.

The prevalence of women workers in urban unorganized sector is significant in number. They are engaged in activities like domestic work, construction work, small trades like brick making, coir and basket weaving, household industries, etc. In rural unorganized sector women are engaged in agricultural activities, animal husbandry, dairy, fisheries etc.

Objectives of the study

To know the socio - economic conditions of women workers in unorganized sector in Andhra Pradesh with special reference to agriculture and construction sector.

* Lecturer in Economics, SCNR Govt. Degree College, Proddatur, YSR Dist, A.P.

Sample Design

The total sample of present study comprises 400 women respondents, 200 each from construction sector and agricultural sector. The information of construction workers was collected from the districts of Kurnool and Anathapur and agriculture sector data from the districts of Kadapa and Chittoor in the state of Andhra Pradesh.

The primary data for the study was collected by using a structured interview schedule by visiting the work places of the respondent workers i.e., construction sites and agricultural fields in the study area.

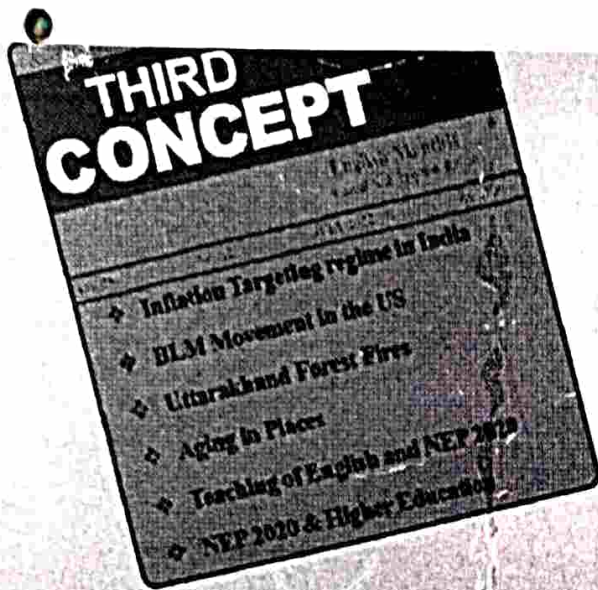
Analysis of the Study

The present study deals with the socio-economic profile of the women workers in the unorganized sector (Construction and Agriculture) covering various aspects such as age, education, marital status, social category, size and type of family, annual income and expenditure, ownership of land, household debt position, sources of debt, household savings, nature and type of housing, facilities available in the houses of the sample families etc.

Social category of the respondents: Social category wise distribution of sample respondents is presented in table no.1. The table shows that out of total sample respondents of 400, 41.75% belong to Backward Castes, 39.25% Scheduled Castes, 11.25% Other Castes and 7.75% are Scheduled Tribes. From the analysis of the table, it is observed that maximum workforce in the construction and agriculture activities comes from the weaker sections of the society. It is also noticed that no scheduled tribe worker is found in the sample of agricultural sector. When we examine construction sector, majority of them (44%) of the total 200 respondents are from Backward Castes whereas in agriculture work the Scheduled Castes are more in number (46%).

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2022

May - 2023

Taming the Naxal-Maoist Violence!

The latest violent assault on security personnel in Chhattisgarh's Dantewada district has shocked the entire nation. Ten police personnel and the vehicle in which security personnel was traveling were killed in the attack planned by the Naxalite-Maoists Group. It is interesting that Naxalite Maoists frequently conduct their "Tactical Counter Offensive Campaigns" (TCOC) from March to June nearly every year. A major incident occurred on April 3, 2021, when 22 security personnel were killed in an ambush along the border of the Sukma district. On March 21, 2020, a Naxal ambush in the Minpa neighborhood of the Sukma district resulted in the deaths of seventeen. Re

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Jainism in Rayalaseema: An Outlook

C. Baba Fakardhin*

[Dharma, or the moral way of life, is promoted by the Jain religion. According to Jainism, dravyas (matter), pudgula (energy), dharma (means of motion), adharma (medium of repose), akasa (space), and kala are the foundations of jiva's (soul's) exterior existence (time). In Andhra Pradesh's most southern region, Rayalaseema is situated. It consists of Anantapur, Kurnool, Kadapa, and Chittoor districts. Since ancient times, Rayalaseema, a region of Andhra Pradesh, has been distinctive in terms of its religious, political, economic, and cultural facets. The current essay concentrates on the growth and dissemination of Jainism in this region.]

An ancient religion called Jainism has persisted in Sri Lanka and India. It had evolved through the teachings of the renowned Jain thirthankaras, who were the epitome of sanctity, starting from the Sramanic tradition. The core idea of Jainism is called *anekanta*, or the notion of non-absolution. By roughly the 4th century B.C., Jainism had a noticeable presence in Andhra. Jainism's early history in Andhra is just as significant as Buddhism, another well-known religion that arrived in the region at the same time.

Aim and Scope

The arrival of Jainism and its spread in Andhra, the Jaina centres, Jaina acharyas, and Jaina architecture and iconography are all studied in the paper using fresh data, with a focus on the Rayalaseema region. Tradition has it that Chandragupta Maurya travelled to Sravanabelagola in Karnataka with his Jain instructor Bhadrabahu. This incident brought Jainism to Karnataka and caused it to expand to the nearby Telugu-speaking Rayalaseema region as well.

Fascinatingly, whilst the western portion of Rayalaseema and the entire coastal Andhra region served as the birthplace of Buddhism, it was the remaining region of Rayalaseema that gave Jainism decades of support. The aim of the present study is to examine the spread of Jainism in Rayalaseema and the resultant art and architectural enrichment.

Sources

All of the Jaina centres in Rayalaseema, including Konakondla, Danavulapadu, Chippagiri, Rayadurgam, Kambadur, and Penugonda, were personally surveyed for the main source material.

Asoka, the famous Mauryan monarch, is first mentioned in relation to the political history of the Rayalaseema region in two of his edicts, which can be located in Kurnool district's Yerragudi and Rajulamandagiri. The fact that Jonnagiri, which is close to Rajulamandagiri, is listed as the provincial headquarters of Suvarnagiri of the Mauryas attests to the geopolitical importance of

Rayalaseema during the Mauryan era. Rayalaseema was governed by the Satavahanas, as evidenced by several of the Satavahana coins that have been discovered there.

The southern portions of Rayalaseema were under the control of the Pallavas, who were based in Kanchi. The Rayalaseema region was traversed by Samudragupta's Southern expedition, which culminated in the defeat of Vishnugopa of Kanchi. After that, beginning in the middle of the 6th century A.D., this area was ruled by a number of chieftains, including the Renati Cholas (Telugu Cholas), the Banas, the Vaidumbas, and the Kayasthas, all of whom were subject to the Pallavas, the Chalukyas of Badami, the Rashtrakutas, the Nolamba, the Chalukyas of Kalyana, the Cholas, the Pandyas, the Kakatiyas and the Vijayanagaras.

The Cholas and Pallavas controlled from the southern regions, while the Chalukyas, Rashtrakutas, Nolambas, and Kalyana Chalukyas dominated from the north-western regions. These kings competed with one another for control of this area. The entire Rayalaseema region was governed by Vijayanagara rulers at this time.

Renadu was an ancient and medieval administrative division in the Andhra region. It generally corresponds to the area between the two tributaries of the Pennar River, Chitravati in the north-west and Cheyyeru in the south-west. A large chunk of the Kadapa district, as well as portions of the Kurnool, Chittoor, and Anantapur districts in Andhra Pradesh, and the Kolar district in Karnataka, are included in the Renadu division. The inscriptions refer to it as Renandu-eduvelu. Inscriptions from the 10th century A.D. also call it Marjavadi or Maharaja vadi. The Renati or Telugu Cholas were a separate royal line that ruled Renadu. From the 6th century A.D. to the middle of the 7th century A.D., they governed. The Pallavas and the Chalukyas of Badami picked this location as the site of their political conflict. Among the monarchs of the Renati Chola family were Nandivarman, Mahendra Vikram I, Punya Kumara, and Srikantha.

Numerous inscriptions confirm the Rashtrakuta rule's expansion in Rayalaseema. It is likely that Indra III, Krishna II's successor and ruler of the region directly

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Economics

2022

नागफनी पत्रिका का उद्देश्य

जब मैं उत्तर प्रदेश सरकार में पी सी एस. (अलाईड) आफिसर था तब मेरे विभाग रजिस्ट्रेशन एण्ड स्टाम्प के आफिसर एक विभागीय पत्रिका निकालने वाले थे। उन्होंने मेरा नाम संपादक के लिए सुझाया। निम्न सुजित राज्य उत्तराखण्ड बनने से मेरा कैडर इसी नवीन राज्य में निर्धारित हो गया। वर्ष 2010 में मेरे और सपना जी ने 'नागफनी' पत्रिका निकालना शुरू किया। हालाँकि मैं ऐसे रचनात्मक साहित्यिक कार्यों के लिए बहुत ज्यादा उत्साहित रहता हूँ।

दलित, पिछड़े, अल्पसंख्यक व बेहद गरीब सामान्य वर्ग में बहुत सारे युवा लेखक, शोध छात्र, प्रोफेसर और लेखक गलत गलत जगहों पर असीम ज्ञान व क्षमता होती है। सामाजिक परिवर्तन करने में अपनी अहम भूमिका निभा सकते हैं। पिछड़े पिछड़े सामाजिक नियमों को बदल सकते हैं। अंध धर्म, अंध विश्वास और अंध मिथकों को समाप्त करके एक नया समतावादी समाज बना सकते हैं। नये नये वैज्ञानिक मिथक गढ़ सकते हैं। ऐसे परिवर्तन व मिथक समाज के लिए कल्पनाएँ साबित हो सकती हैं। देश की आर्थिक स्थिति तो पटरी से उतर चुकी है, उसको पुनः पटरी पर ला सकते हैं। इस वैज्ञानिक युग में वैज्ञानिक नियमों का पालन करते हुए देश व विश्व को एक नई दिशा दे सकते हैं। लेकिन अफसोस इस बात का है कि ऐसे मेधावी लोगों को देश की शिक्षाएँ एवं चर्चित पत्र पत्रिकाओं में कोई स्थान नहीं मिलता। इस कमी को दूर करने के लिए 'नागफनी' पत्रिका की शुरुआत की गयी। धर्म, भाईचारा, साम्प्रदायिक सद्भावना, देशभक्ति, समानता स्थापित करना इस पत्रिका का उद्देश्य है।

देश में हुआफूत अब भी बहुत जगह कायम है। समानता का अधिकार अब भी नहीं है। निम्न वर्ग को अब भी दोयम दर्जे का नागरिक समझा जाता है। इन भेदभावों व छिन्नाफ संधर्ष करना 'नागफनी' का मूल उद्देश्य है। लेखकों के ऐसे लेखों को नागफनी में छपा जाएगा। देश में कन्याभ्रूण हत्या का विकराल रूप देखने को मिलता है। इसकी वजह से लड़कियों का अनुपात लड़कों के मुकाबले कम होता जा रहा है। यह एक तरह से सृष्टि के विनाश का संकेत है। सृष्टि को बचाना भी 'नागफनी' के उद्देश्यों में से एक उद्देश्य है। लेखकगण इस समस्या पर अपनी कलम चलायेंगे और नागफनी में स्पेस पावेंगे।

विश्वस्तरीय पर भी बहुत सारी समस्याएँ गुँह बांधे खड़ी हैं। जलवायु परिवर्तन, ग्लेशियर का पिघलना, ग्लोबल वार्मिंग ऐसी समस्याएँ हैं जो विश्व को नष्ट कर सकती हैं। विद्वान लोग इन समस्याओं पर अच्छे-अच्छे लेख लिखेंगे। नागफनी पत्रिका का कर्तव्य होगा कि ऐसे लेखों को प्रकाशित करके सृष्टि को बचाने में अहम भूमिका निभाए।

इस पत्रिका के कार्यकारी संपादक गण सर्वश्री डॉ. एन पी पद्मपति जी व प्रोफेसर बलिराम धापसे जी इस नागफनी पत्रिका को विश्वस्तरीय की पत्रिका बनाने में जी जान से लग रहे हैं। हम सभी लोग सपना सौनकर संपादक, नागफनी के दिशा निर्देश में काम कर रहे हैं। यह पत्रिका किसी विशेष जाति, धर्म पर आधारित नहीं है। यह मानव कल्याण के लिए है। मानवता ही इसका मुख्य ध्येय है। हा बाजसाहेब अवेडकर का नारा था "शिक्षित बनो। संगठित हो। संधर्ष करो।" यह पत्रिका इन सूक्त जाक्यों का पूर्णतया पालन करेगी।

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Empowerment of Women Through Self-Help Groups In India- A Case Study

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Abstract-Self Help Groups (SHGs) are described as voluntary organisations that value interpersonal communication and mutual aid as a means of empowering women socio-economically. Self Help Groups (SHG) have a significant impact on eradicating poverty in rural India today. SHG is a popular technique for social development that is used to empower women and reduce poverty in rural areas. Self-help groups are formed with 10 to 15 women in each group to promote self-reliance, human agency, and action. A SHG is a small, economically homogeneous affinity group of rural poor people who voluntarily come together to regularly save small amounts and deposit them in a communal fund to cover members' emergency needs and offer free loans at a low interest rate. The fundamental tenets of SHGs are a group approach, reciprocal trust, organisations of tiny and marginal groups, and loans that are favourable to women, peer pressure in loan payback, skill development programmes, capacity building, and organising and entrepreneurship in small-scale industries. The present paper elucidates the importance of SHGs and its important role in the lives of women empowerment in Dorasanipalli village of Proddatur Mandal of Kadapa District.

Key Words: SHGs, empowerment, etc.

Introduction -Self-help groups are a key tool for empowering women's socioeconomic status. SHG encourages women to develop their own income-generating ventures, helps people raise loans, increases their saving habits, and links them to banks so they may access banking services and facilities. The transition of society, which embraces the departure from conventional relationships, social conventions, and traditional ways of traditional methods from SHG'S, is one of the most crucial aspects of growth. The promotion of SHG'S can integrate women from schedule caste into the mainstream of their economic development through voluntary savings, which is the key to economic advancement. By combining their resources to meet the consumption and production needs of women from the schedule caste, SHGs can develop a distinctive, alternative need-based loan delivery system.

MICRO FINANCE - Micro Finance is a financial service of providing small quantity of finance by the financial institutions to the poor. These financial services may include savings credit, insurance, leasing, money transfer, equity translation etc.

ORIGIN OF THE STUDY-Self Help Groups (SHGs) were first developed by the Grameen Bank of Bangladesh, which was established by Prof. Mohammed Yunus in 1975 and tried out a novel rural credit system in Bangladesh.

house. The phrases 'poor little Nora,' 'lark,' 'spendthrift,' 'quail,' 'little songbird,' 'small woman,' etc. are commonly used to refer to her. The majority of the time, Torvald speaks in a possessive, protective, and patronizing manner. For instance: 'My great wings will protect you ... you must rely on me-I shall advise you and guide you' (223). The theme of the play is the unequal relationship between men and women. The standards that dictate superior roles for men and lower roles for women are created by men. She is acted upon by him. Nora is not made to be a woman methodically through the socialization process, which started the day she was born, to borrow a phrase from Simone de Beauvoir. A woman becomes weak-willed, passive, submissive, and fragile as a result of socialization. She is confined within the four walls of the house due to an adoption of patriarchal ideas. She isn't allowed to interact with the outside world, which makes her vulnerable. She is continuously shielded by a man: her father protected her when she was a child, her husband shielded her once they were married, and her boys protected her as she became older. Her sexuality and capacity for sexual reproduction are likewise affected by the ideals of the patriarchal society. In actuality, there is no biological basis for sex inequity. It is a product of both culture and history. In contrast to masculinity, which is linked with violence and authority, femininity is connected with meekness, submission, and powerlessness. Nora is a typical 19th-century woman in A Doll's House. Her personality is shaped by her upbringing at her father's home. She never learns how to disagree with others or how to dispute. She knows only to listen and to obey, as she confesses: 'It's true, Torvald. When I lived at home with Papa, he used to tell me his opinion about everything, and so I had the same opinion. If I thought differently, I had to hide it from him, or he wouldn't have liked it. He called me his little doll, and he used to play with me just as I played with my dolls. Then I came to your house' (225).

The relationship between husband and wife is far from equal and there is little mutual understanding. Here husband desires and wife submits; he dictates terms and she obeys. Nora is a meaningless entity before Torvald's idea of honor and public respectability. For the first time Nora realizes that she had never lived her life on her own terms. She reminds Torvald: 'You and Papa have committed a grievous sin against me; it's your fault that I've made nothing out of my life' (226). The society of which he or she is a member both shapes and is shaped by the individual. Ibsen's play is cast in realistic mode, which portrays individual and society reciprocally altering each other, and evolving for the better, in contrast to modernist literature where individual and society are shown as different entities and the individual is shown pitted against an oppressive system. The person has the power to liberate not only himself but the entire society. However, this release is only attainable after the rejection of the prejudiced institutions, behaviors, and values. It is not a rejection of society; rather, it is a rejection of prejudice, lies, hypocrisy, dishonesty, and double-talk. The waking of mankind is facilitated by Nora's awakening.

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Grameena Bank provided loans without requesting that applicants submit any paperwork or offer any type of security. In India, SHGs were started by NABARD in the years 1986-1987. However, the major effort came in 1991-1992, when SHGs were connected to banks.

STATEMENT OF THE PROBLEM-Self Help Groups (SHGs) are a very significant tool for organising women to take action and improve their circumstances. The Government of India has made various initiatives to strengthen the role of women and to improve their status. Self-help groups are effective because those who are experiencing problems are likely to be the most motivated to find solutions. Self-help groups have become one of the key tactics for the blending of services and endeavours. Different SHGs in various states of the nation have concentrated on skill-building and awareness-raising initiatives as well as obtaining financial institution credit for microenterprise projects and managing credit for the underprivileged sections of women.

REVIEW OF LITERATURE

1. Ramakrishna (2005), SHG initiative was launched to provide the poor with access to formal financial services. It was somehow expected that cooperative would step into provide these services. Already existing small level institutions with their readily available support structure as seen in case of the agricultural credit societies were ideally placed to serve as outlets for financial services to SHGs the Relationship between commercial success of Cooperative banks, the extent of the linkage established and the impact of such linkages on performance. According to the Annual Report of the Ministry of Rural Development 11.45 lakhs of SHGs have been formed in India so far 118413 SHG exist in Tamil Nadu with 2326973 members in its fold (Fredrick 2005).

2. D.H. Mahmood Khan and G.M. Dinesh (2010) analyzed that the participation of women are only within the PRI a name, but in reality, it is male family members who hold the power. View on improving women's participation, education and training for women members, public and family encouragement, government encouragement through provisions of more powers of funds and seats for women and make their attendance in the meeting compulsory.

OBJECTIVES:

- To investigate financial support for SHGs.
- Analyze the role that women's empowerment plays in securing resources and generating income.
- To provide and enhance capacity building and training programmes for schedule for women's participation in SHGs before and after.
- To learn about social equality in society using SHGs.

METHODOLOGY

In order to analyse the data in accordance with the study's aims, both primary and secondary data were used. Secondary data were gathered from subject literature and websites; primary data were obtained through an interview schedule. The current investigation drew from specialised literature and websites. The present study has covered from Dorasanipalli village, Proddatur Mandal, Kadapa District in Andhra Pradesh.

The sample size is 200 Respondents contributing all categories of Self Help Group members from Dorasanipalli Village.

ANALYSIS AND INTERPRETATION

SHG members in their Socio-economic conditions and other related factor through structure interview the result of chi-square test, correlation techniques are used the Research.

MAJOR FINDINGS

- A majority of 58 percent of respondents who join to self-help groups are between the ages of 31 and 40.
- The majority of SHG members—62 percent—are literate.
- 71.6 percent of respondents, or the majority, are from nuclear families.
- The majority of SHG members (86.3%) earn less than Rs 8000 per month.
- 39 percent of respondents were divided on the issue of enhancing savings through joining self-help groups.
- The majority (51% of respondents) have been members for more than four years.
- The majority (53.8%) have attended meetings once a week.
- 76.7 percent of SHG members are connected to Indian Bank.
- 52.9 percent of tiny petty shops were started by SHGs.
- 80% of the respondents said they encourage others to join SHGs.
- The majority of respondents (61.7%) report improvements in self-confidence.

SUGGESTIONS:

- Through the organisation of SHG members, the State Government can launch more programmes.
- Female literacy needs to be encouraged in order to support women's emancipation.
- It was noticed that a select few women were consistently running the show. There should be a trend to have everyone vote for group leader each year.
- The team as a whole is educated by the group leader on how to run the group and keep records.
- To carry out capacity-building initiatives.
- To provide SHG members an old-age pension plan with a minimum payout of Rs. 3000.

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ABSTRACT-In India, tourism is a fast-growing business that creates jobs, contributes significantly to the nation's foreign exchange earnings, and benefits both the local and host populations. The growth of different tourism products, changing lifestyles and rising income levels, as well as government policy and regulatory assistance, are all major factors influencing the travel and tourism industry in India. Currently, the Indian economy's primary source of foreign cash and a major contributor to GDP is the tourism industry. Given its ability to boost productivity, create job opportunities, expand infrastructure facilities, and boost local competitiveness, foreign direct investment (FDI) has been seen as a crucial to accelerating economic growth and development. In light of this, the current paper aims to: highlight the issues that require attention from policy makers for achieving inclusive growth through the tourism sector; illustrate the current status and contribution of Foreign Direct Investment (FDI) in facilitating tourism in India; and pinpoint the challenges of tourism in India.

Keywords: Travel & Tourism, FDI, Inclusive Growth Challenges, Economy.

Introduction-Every \$1 million spent on travel and tourism in India generates \$1.3 million in GDP, according to the World Travel and Tourism Council's (WTTC) 2014 annual report. By encouraging other industries within the economy through backward and forward linkages and creating jobs in a variety of sectors like hospitality, travel, and entertainment, it has been acting as a sign of "more inclusive growth" in India. By 2019, the Indian tourist sector has the potential to generate roughly 40 million new jobs, claims WTTC. Given its ability to boost productivity, create job opportunities, expand infrastructure, and boost domestic competitiveness, foreign direct investment (FDI) has been seen as a vital to accelerating economic growth. To draw in foreign investors, the Indian government has implemented a number of financial and economic changes. Due to these reforms, FDI not only increased in quantity but also underwent a significant change in composition. The service industry, telecommunications, computer software, hotel and tourism, among other areas, have drawn the most FDI. Currently, the hotel and tourism sector accounts for 3.28% of all FDI equity inflows (DIPP 2015).

Review of Literature-Aguayo Eva (2011) in his paper 'Impact of Tourism on Employment: An Econometric Model of 50 Central and East European regions' analyzed the economic impact of tourism development. He employed an econometric model to show that there is positive impact of tourism on employment and market services. In this paper the model shows the positive impact of tourism on the services sector. Dives Chathurvedi (2010) in his work 'Tourism in India: A bird view' analyzed that tourism is the largest sector in terms of generating employment. It helps to maintain balance between demands for and supply of human capital. In other words; tourism industry has tremendous potential for employment generation.

Objectives of the Study

1. To Study the role of Travel and Tourism in Indian Economy.
2. To study Foreign Direct Investment and its effect on Tourism.

Methodology-The World Travel and Tourism Council ('WTTC' research)'s papers, the World Economic Forum's Travel and Tourism Competitiveness Report (TTCR), economic surveys, and government of India budgets are only a few of the secondary sources included in this study's descriptive methodology. The gathered information is tabulated and shown in absolute form as well as percentages, and it is further examined by computing ratios and growth rates.

Travel and Tourism Sector in India-Both inbound and outbound tourism are considered to be part of international tourism (residents travelling from a country to foreign). Arrivals of inbound (foreign) tourists are a source of producing foreign currency for any nation. Most people think of tourism as a privately-driven industry. However, in order to fully use the tourism sector's potential and achieve inclusive and sustainable growth and development, government intervention and supportive measures are required. The Indian government has made the following actions to advance this industry:

1. The budget for 2015-16 proposes to gradually expand the number of nations eligible for visas on arrival from the 43 currently included to 150.
2. For the purpose of promoting exports of "Hotel and Tourism"-related services, the Department of Commerce established the Service Export Promotion Council.
3. The scope of the Marketing Development Assistance (MDA) scheme included medical tourism.
4. To support the travel and tourist industry, Rs. 3112.71 crore was approved under the 11th five-year plan to finish 991 tourism infrastructure projects and upgrade national highways.
5. To improve the hospitality and tourism-related industries, the government approved 100% foreign investment under the automatic route.
6. To encourage travel, the "Incredible India" and "Anithi Devo Bhavah" campaigns were developed.

TABLE: I Role of Travel and Tourism in Indian Economy

	India		World Average	
	2013	2014 (% Growth)	2013	2014 (% Growth)
Direct contribution to GDP (USD Billion)	37.2	7.5	18.0	4.3
Total Contribution to GDP (USD Billion)	113.2	7.3	55.0	4.3
Visitor Exports (USD Billion)	19.0	4.8	7.0	2.9
Capital Investment (USD Billion)	33.1	9.8	4.2	5.7
Direct Contribution to Employment ('000 jobs)	223202	2.5	799.8	2.2
Total Contribution to Employment ('000 jobs)	35418.5	2.7	2017.4	2.5

Source: Compiled WTTC Travel & Tourism Economic Impact 2014, World Travel & Tourism Council.

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కాళిపట్నం రామారావు కథలు - సామాజికత

-డా. కె. ఎస్. సుందరేశ్వరరావు, తెలుగు భాషాధ్యక్షులు, యన్.వై.ఎస్.ఆర్. ప్రభుత్వ డిగ్రీ కళాశాల, ప్రొద్దుటూరు, కడప జిల్లా.

కాళిపట్నం రామారావు గారు తెలుగు కథారచయితల్లో అగ్రశ్రేణి రచయితగా పేరుగాంచారు. వర్తమాన సామాజిక విలువల్ని, వాటి పునాదుల్ని ప్రశ్నించి చర్చకు పెట్టడం గురిచాడే సాహిత్యరచయితే. నమాజంలోని అట్టడుగు వర్గాల సమస్యలను, అందుకు గల కారణాలను, కొంతమంది పరిష్కారాలను చూపడం కాళిపట్నం రామారావు రచనల స్వభావంగా కనిపిస్తుంది. వాదాఫల తన ఉద్దేశ్యం, రచనా జీవితాలను విశాఖపట్నం కేంద్రంగా కొనసాగించిన కా.రా., రావిశాస్త్రి లాంటి నీవెయిదే రచయితల్లో కొంతమంది మోర్చిస్తు అలోచనాపరుల పొంగతనంలో సాహిత్యవయోజవాన్ని, సామాజిక స్వయాపాత్ని అవగతం చేసుకునే ప్రయత్నం చేశారు.

కా.రా. కథల్లో ప్రధానపాత్రలు అట్టడుగు వర్గాలకు చెందినవి. వాటి బాధకావధులకు, సమాజానికి మధ్య వందలరం కాదా కథల్లో వృష్టంగా కనబడుతుంది. మధ్యతరగతి, అట్టడుగు వర్గాల ప్రజల జీవితంతోబాటు కా.రా., పారిశ్రామిక వంజులను, గ్రామీణ జీవనంలో వస్తున్న మార్పులను తన కథల్లో వస్తువుగా గ్రహించారు.

కా.రా. కథలు-మార్క్సిస్టు దృక్పథం :

సాంఘికంగా కడుదూరం రచయితలుగా వెళ్ళు బడుతున్న వారిలో ఎక్కువ భాగం మార్క్సిస్టు దృక్పథంతో కథలు రాసినవారు గావే కనిపిస్తారు. మార్క్సిస్టు సిద్ధాంతం ప్రకారం సమాజంలో ధనవ్యత్య, శ్రామిక అనే రెండు వర్గాలుంటాయి. ఈ రెండింటి మధ్య విల్లవ్యధు సంపూర్ణ జరుగుతూనే ఉంటుంది. రచయితలు ఈ రెండు వర్గాలను విశిష్టంగా వర్ణించిస్తూ, శ్రామికవర్గ ప్రక్షాళనతో రచనలు చేశారు. కా.రా. ఈ నియమాన్ని పాటించిపట్లు కవిమించదు. తాను గమనించిన గ్రామీణ,

పట్టణ ప్రజల జీవితాలను వాస్తవికమైన పరిస్థితులతో సమన్వయిస్తూ సామాజికత ప్రధాన కేంద్రంగా ఆయన కథలు రాశారు. తన కథల్లో యల్లం (1964) మండి కుట్ట (1972) వరకు అట్టడుగు వర్గాల్లోని జీవిత సంపూర్ణతలు, వారి అర్థికదుస్థితిని చక్కగా చిత్రించారు.

శాంతిలోని అశాంతిని, చావే నయమనిపించే బ్రతుకుని, పిటికీ కూడా నాడుకావే నియవదల కష్టాలను చిత్రించిన కథల్లో శాంతి, చావు, జీవధార ముఖ్యమైవవి. నిత్యజీవితంలోని సామాన్యుల వాస్తవిక సమస్యలు ఈ కథల్లో చిత్రించబడ్డాయి.

జీవితంలో అన్నీ తమరేనా వాడికీ, లేదా, అన్నీ అమర్చుకునే అవకాశాలు ఉన్నవాడికీ శాంతి కావాలి. వాడి ఉనికికీ, యభావతన్వితక శాంతి అవసరం. రక్కాడిత గాని, డిక్కాడని కూరికీ జీవితంలో నిత్యం కళాంత. ఈ సామాజిక దిపిడి కొనసాగాలంటే శాంతి అవసరం. ఈ పీడన కొనసాగాలంటే శాంతి జపం చేయాలి. ఇలా ఒకవర్గం మూత్రం శాంతిగా ఉంటే, మిగిలిన శ్రమజీవుల మాటేమిటి? అని కా.రా. శాంతి కుల్లో ప్రశ్నిస్తూ మిల్లు యజమాని వల్లభిరామయ్య ఉన్నతవర్గం మనిషి అన్న మోఖాలు అనుభవించే వల్లభిరామయ్య వ్యవస్థకు కొమ్ముకాసే కలెక్టరు శాంతిని కాపాడే పాత్రను అవేనయి - ఏరందరికీ శాంతి కావాలి. కార్మికులు-మిల్లు యజమానుల ప్రయోజనాలు పర్పర విరుద్ధాలు వాటి మధ్య సంమర్దదే తప్ప. సామరస్యం, సత్తు లేవు.

చావు కథల్లో పూర్తిగా గ్రామీణ బాధావరణం కనిపిస్తుంది. అన్నీ వాస్తవిక జీవితంలోని పాత్రలే. శ్రామిక జనం, మోతుబురులు ఇందులోని పాత్రలు బ్రతికుంటూ ఉంటేనిండా బట్టకైనా నోచుకోని మునల్ముక్కు నారమ్మ జీవిత గాథ ఇందులో కనిపిస్తుంది. చరిత్రలోనే పేదల ప్రత్యేక స్థానం.

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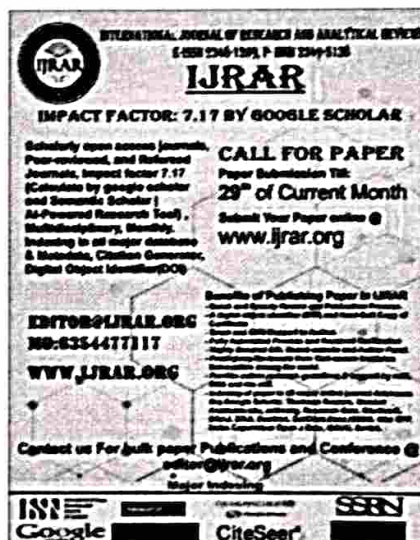
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A Review on Different Renewable Energy Resources

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ABSTRACT: The world is fast becoming a global village due to the increasing daily requirement of energy by all population across the world while the earth in its form cannot change. The need for energy and its related services to satisfy human social and economic development, welfare and health is increasing. Returning to renewables to help mitigate climate change is an excellent approach which needs to be sustainable in order to meet energy demand of future generations. Renewable technologies are technically viable and economically attractive; traditional energy technology receives many investment dollars. The use of renewable energy resources is growing gradually and its requirement is also increasing as compared with the conventional energy sources from corner to corner of the world. The use of these energies can accomplish the added energy requirement and the research on this is in development. The renewable energy types considered include solar, wind, geothermal, bio-energy and waste derived energy, ocean thermal energy, tidal, wave and hydraulic. This paper provides a brief knowledge about different renewable energy resources. It thus, becomes a need to explore these sources more efficiently, so that we can maximize its use for different applications worldwide.

Keywords— Renewable Energy Resources, Solar Energy, Wind Energy, Hydrothermal Liquefaction

1. INTRODUCTION

As world's population is increasing day by day, therefore the utilization of energy is increasing in a hurry. The employ of renewable energy resources seems to be a huge movement by which the extra energy can be generated as generation of energy becomes an important concern for the world [1]. Renewable energy resources can be a alternative option for conventional energy resources as it substitute conventional fuels [2]. Basically, the most important aspect for increasing renewable energies is to pilot a number of positive results like controlling the greenhouse effect and climate change [3, 4]. The status for electricity generation of various renewable energy types, such as solar, wind, hydraulic, biomass, ocean and geothermal, is frequently reported and the development potentials of renewable energies are often investigated [5, 6]. The development of



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Evaluation of Ground Water Quality and its Suitability for Irrigation Usage, using some Statistical Methods in Rural Visakhapatnam, Andhra Pradesh, India – A Case Study

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Abstract



Evaluation of Ground Water Quality and its Suitability for Irrigation Usage, using some Statistical Methods in Rural Visakhapatnam, Andhra Pradesh, India – A Case Study

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ABSTRACT

Groundwater is so precious and mostly pure than surface water, and it is utilized for the nourishment of all living organisms. Nearly 80% of rural India's agriculture and village crops depend upon groundwater. Due to contaminated groundwater, the yields of many crops are decreased. The economy of the present study area is mostly dependent upon agriculture. The main objective of the present study is to evaluate the groundwater quality and its suitability for irrigation by performing some statistical calculations such as Kelly's Ratio (KR), Residual Sodium Carbonate (RSC), Permeability Index (PI), Percent Sodium (%Na), Sodium Adsorption Ratio (SAR), Ion Exchange as Chloro-Alkaline Indices (CAI-I and CAI-II), Chloride classification and Magnesium ratio. For this study, groundwater samples were collected from chintalagorlavanipalem, pinamadaka, bottavanipalem, jallelapalem, lankelapalem, chinatadi, tanam, and parawada villages of rural Visakhapatnam, Andhra Pradesh, India during the period of pre-monsoon (April) and post-monsoon (September) seasons of 2021. For this study, the results of pH, Electrical Conductivity (EC), Total dissolved solids (TDS), Magnesium (Mg^{2+}), Calcium (Ca^{2+}), Potassium (K^+), Sodium (Na^+), Chlorides (Cl^-), Nitrates (NO_3), Total alkalinity (TA), Sulphates (SO_4^{2-}) were utilized. The results are compared with BIS (IS 10500:2012) drinking water and other designated standards. The result of Kelly's Ratio (KR), and Permeability Index (PI), showing abnormality in the study area as the study area is the very close proximity to the industrial hub. The dominant hydro chemical facies of groundwater are $CaHCO_3$, mixed $CaNaHCO_3$, mixed $Ca-Mg-Cl$, and $Na-Cl$ Water Types. Water is not suitable for irrigation at many sampling stations due to the high concentrations of sodium, chloride and other designated parameters, and it needs to be protected from the perils of contamination.

Key words: Groundwater, Statistical calculation, Kelly's Ratio, Hydro chemical facies

Water is an indispensable element, and a precious commodity in nature, in that, freshwater is convenient for the survival of life on the earth; there is no substitute for water for its uses [1]. The influence of solid waste dumping sites, undignified drainage, domestic wastewater, and aquifer material mineralogy together with semiarid climate, and unempirical anthropogenic activities have adversely affected the groundwater quality [2]. Hence, contaminated water is

soiling the good quality of water, it also damages the communal prosperity, and growth of the economy, and most seriously damaged human health & well-being. Before the industrial revolution, surface, as well as groundwater quality, is good enough with respect to quality and quantity. From the 18th century onwards, tremendous growth in industrial establishment causes to frantic growth of anthropogenic activities leading water resources vulnerable to contamination by various pollutants [3]. Therefore, the groundwater quality is depending on various parameters, these parameters are being distorted widely due to mixing up with the various types of pollutants. Industrial wastewater containing toxic chemical components, agricultural activities, runoffs, mining extracts, and urban sewage are the main causes of strange pollutant contamination in ground water [4-6]. Even today, the prime economy of rural India is agriculture. In rural Indian agriculture, groundwater plays a major role. Nearly 80% of rural India's agriculture and village cropping is depending upon groundwater, hence too much groundwater is drawing, and thus the quality of groundwater is deteriorating day by day. Moreover, the huge consumption of chemical fertilizers,

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Preparation of Hand-Made Chocolates and the Nutritional Composition of its Ingredients

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ABSTRACT: Chocolate is an incredibly stable substance that, under normal circumstances, will last forever. The physical-chemical characteristics of chocolate made from native cocoa beans were compared to those of commercial chocolate, and the physical-chemical characteristics of cocoa beans were investigated after fermentation, drying, roasting and grinding. We looked at the sample nibs' moisture, ash, fat, fiber, protein and tannin content. India's chocolate sector has made significant progress. India is home to numerous cocoa producers that provide a wide range of industrial and domestically produced chocolate-based goods. For the purpose of producing chocolate, cocoa beans are used to make cocoa powder and its byproducts. Therefore, their disposal could cause problems with the environment and the economy. For novel and useful dishes, cocoa powder may be a valuable component or additive. In the context of a circular economy, the value-adding of food byproducts is more important. A source of fiber (around 50% w/w), proteins, minerals, vitamins, and a wide variety of polyphenols, cocoa beans are also a possible supply. The purpose of this review is to examine the chemical and nutritive makeup of cocoa bean powder used in the production of chocolates and to re-evaluate the numerous uses that have been suggested in order to maximize the value of this byproduct for use in food, livestock feed, industrial applications, as well as critical care medicine. Studies reporting the bio-functional potential of cocoa powder for human health, such as antibacterial, antiviral, anti-carcinogenic, anti-diabetic, or neuroprotective activity, benefits for the cardiovascular system, or an anti-inflammatory capability, will receive particular attention.

Keywords: Chocolates, Cocoa by-product, Human health bioactivity, Flavonoids.

INTRODUCTION

Cocoa beans are the foundation of chocolate and related products. The cocoa bean, the plant's seed, is grown in tropical regions (Agus *et al.*, 2018). In the first edition of "Species Plantarum," which was published in 1753, the Swedish scientist Linnaeus gave the name "Theorem Cocoa." It belongs to the Sterculiaceae genus of plants (Diomande *et al.*, 2015). Botanically, there are two major groups: the white seeded Criollo, which is less common but produces high-quality cocoa with a mild flavor, and the purple seeded Forster, which provides the majority of the world's chocolate (Agus *et al.*, 2018). The seeds, or cocoa beans, of the obroma cocoa trees, which are indigenous to South and Central America, are used to make both cocoa and chocolate. After being separated from the pods, the bean must

undergo microbiologic and enzymatic fermentation in order to remove the pulp or mucilage coating and to enhance flavor (Badrie *et al.*, 2015). Cocoa beans are dried to lower the moisture content to an acceptable level for storage and shipping without compromising bean quality. The beans must be dried at a temperature between 45 and 60 degrees Celsius. To offer the beans a good keeping quality, they are machine- or sun-dried to a moisture content of around 7% (Diomande *et al.*, 2015). Roasting dried cocoa beans releases the bitter volatile compounds while enhancing the distinctive flavor and scent of chocolate. The shell is loosened while the nib is dry. Then, using a grinder, the powdered roasted nibs were produced (Diomande *et al.*, 2015). To make dark "eating (solid)" chocolate, sugar and ground, roasted beans were combined with cocoa butter. Cocoa in the milk. Around 1876 Swiss scientists

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