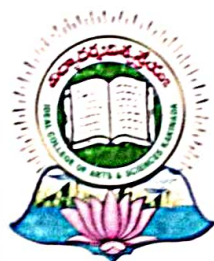




Proceedings and Excerpts of the UGC Sponsored National Seminar
On
**RECENT TRENDS IN RESEARCH
METHODOLOGY IN CHEMISTRY**

15th & 16th NOVEMBER, 2019

Edited By
Dr. Praveen Choppara



Organized By
Department of Chemistry
Ideal College of Arts and Sciences (A)
Kakinada

*Proceedings and Excerpts of the UGC Sponsored National Seminar on
"Recent Trends in Research Methodology in Chemistry"*

Published by

KY PUBLICATIONS

(Regd No: 68/2017)

D.No: 4-15-50/2, 6th Line, Bharathipet, Guntur. 522002,

A.P. INDIA.

www.kypublications.com

Mobile: +91-88858-48005

editorkypublications@gmail.com;

http://kypublications.com/

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Publishing Process Manager: Dr. M.Kishore

First published: March 2020

Printed in India

ISBN (Print): 978-93-87769-80-9

(Paper Back)

Price:400Rs (India only)

Other than India:30US\$

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Challenges and Applications of Green Chemistry in Daily Life

K. Nirmala Rani¹, Dr N. Gnana Praveena², Y. Ayyanna³,

¹HOD of Botany, Ideal College of Arts and Sciences, Kakinada

²Associate professor, Swarnandhra College of Engineering and Technology, Narsapur, West Godavari Districts

³Lecturer in zoology, Ideal College of Arts and Sciences, Kakinada

ABSTRACT

The green chemistry revolution is providing an enormous number of challenges to those who practice chemistry in industry, education and research. The beginning of green chemistry is considered as a response to the need to reduce the damage of the environment by man-made materials and the processes used to produce them. Green chemistry could include anything from reducing waste to even disposing of waste in the correct manner. All chemical wastes should be disposed of in the best possible manner without causing any damage to the environment and living

INTRODUCTION

Sustainable development is now accepted by governments, industry and the public as a necessary goal for achieving societal, economic and environmental objectives. Within this, chemistry has a key role to play in maintaining and improving our quality of life, the competitiveness of the chemical industry and the natural environment. This role for chemistry is not generally recognized by government or the public. In fact chemicals, chemistry and chemists are actually seen by many as causes of the problems.

The challenges to chemists

The challenge for chemists and others is to develop new products, processes and services that achieve the societal, economic and environmental benefits that are now required. This requires a new approach which sets out to reduce the materials and energy intensity of chemical processes and products, minimise or eliminate the dispersion of harmful chemicals in the environment, maximise the use of renewable resources and extend the durability and recyclability of products – in a way which increases industrial competitiveness. Some of the challenges for chemists include the discovery and development of new synthetic pathways using alternative feed stocks or more selective chemistry, identifying alternative reaction conditions and

Modern Trends in Research Methodology in Chemistry

¹K.V.Lakshmi, ²Dr.B.Lakshmana Rao, ³K.Jyothi Raju and
⁴ Dr.S.V.G.V.A.Prasad.

^{1,4} Department of Physics, Ideal College of Arts and Sciences (A), Kakinada-533004.

²Department of Physics, V.S.R. Govt. Degree & P.G. College, Movva, Andhra Pradesh 521135.

³ Research Scholar, Krishna University, Machilipatnam-521001

*Corresponding Author-somarouthu13@yahoo.co.in

ABSTRACT

The themes considered in this review spread a piece of the exploration technique paper of Master of Philosophy (M.Phil.) course and Doctor of Philosophy (Ph.D.) course. The composition is expected for understudies and research researchers of science subjects, for example, arithmetic, material science, science, measurements, science and software engineering. Different phases of research are talked about in detail. Uncommon care has been taken to spur the youthful analysts to take up testing issues. Present day inclines in Chemistry gives a novel stage to researchers to urge investigate distribution to look into researchers, academicians, experts and understudies occupied with their individual field and the goal of this survey article is, to give understudies and specialists a knowledge into how to do their exploration deliberately and expertly.

Keywords: Research methodology, literature, Digital Trends, programming languages, chromatography.

Research Methodology

An exploration philosophy or includes explicit methods that are received in research procedure to gather, amass and assess information. It characterizes those apparatuses that are utilized to assemble important data in a particular research study. Speculations consistently require to be checked for significance. Research technique is received to check a specific hypothesis and its application along a particular arrangement of scholastic principles. This is obligatory so all examination fulfills the field explicit guidelines. Research system is applied on two significant kinds of research process which includes fundamental research and applied research. Essential research incorporates the work or research that has not been

Green Chemistry- Its Applications

K. VENU GOPAL K. SREENIVAS

IDEAL Colleges of Arts and Sciences and PG courses

Vidyut Nagar-Kakinada

ABSTRACT

Green chemistry is the synthesis of substance in such a way that is proper, non-polluting and protected and which requires lowest amounts of resources and energy but generating slight or no waste material. The green chemistry is required to minimize the harm of the nature by anthropogenic materials and the processes applied to generate them. Green chemistry indicates research emerges from scientific discoveries about effluence responsiveness. Green chemistry involves 12 set of values which minimize or eliminates the use or production of unsafe substances. Scientists and Chemists can significantly minimize the risk to environment and health of human by the help of all the valuable ideology of green chemistry. The principles of green chemistry can be achieved by the use environmental friendly, harmless, reproducible and solvents and catalysts during production of medicine, and in researches. The use of UV-energy Microwave irradiation in is also significant way to achieve the goal of green chemistry. This paper explains ideology, certain examples and application of green chemistry in everyday life, in industry, the laboratory and in education.

1. INTRODUCTION

Pharmaceuticals Industries are using toxic chemicals and extra difficult process which produces comparatively a large amount harmful substance. These harmful substances cause bad impact on surroundings and nature. The approach of Green chemistry provides environmentally friendly way to replace harmful solvents and technologies, so prevent pollution.

Green Chemistry concept: The green chemistry has emerged as research program in the US which arises from collaborative efforts of university unit, self-governing research crowd, business, technical community and legislative agencies, to decreasing pollution.

The new approach introduces in green chemistry synthesis, dealing out and relevance of chemical material in such a way as to minimize the risk to environment and health of human. This advanced access is as well called:

A Brief Review on Acyl hydrazones

Praveen Choppara*, Kalidindi Jhansi Lakshmi

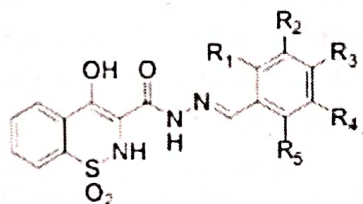
Department of Chemistry, Ideal College of Arts & Sciences (A), Kakinada, 533 004,
Andhra Pradesh

E-mail: pchoppara@gmail.com

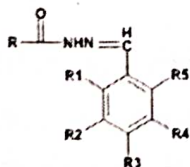
The acylhydrazones [(hydrazide-hydrazone (-CO-NH-N=CH-)] are the important functional group which show significant role as pharmaceutical agents possessing anti inflammatory, anti malarial, anti microbial, anti convulsant, anti tumor, analgesic, anti platelet, anti tubercular activities.

Anti bacterial

Muhammad Zia-ur-Rehman et al synthesized a novel series of potentially biologically active 4-hydroxy-N0-(benzylidene)-2H-benzo[e][1,2]thiazine-3-carbohydrazone 1,1-dioxides. All of the synthesized compounds were subjected to preliminary evaluation for their antibacterial and DPPH radical scavenging activities.



Davinder Kumar et al synthesised a series of twenty benzylidene hydrazides and tested, *in vitro*, for antibacterial, antifungal and antiviral activities. Among the tested compounds 5 compounds showed good anti bacterial activity.



Ravindra B. Pathak et al synthesised a series of 3-(4-chlorophenyl)-4-substituted pyrazoles and were tested for antibacterial activity against Gram positive and Gram-negative organisms.

Materials Characterization

¹K.V.Lakshmi ²K.Rajani, ³P.V.Kameswara Rao, ⁴Dr.B.Lakshmana Rao,
⁵K.Jyothi Raju and ⁶Dr.S.V.G.V.A.Prasad.

^{1,6}Department of Physics, Ideal College of Arts and Sciences (A), Kakinada-533004.

^{2,3}Department of Chemistry, Ideal College of Arts and Sciences (A), Kakinada-533004.

⁴Department of Physics, V.S.R. Govt. Degree & P.G. College, Movva, Andhra Pradesh 521135.

⁵Research Scholar, Krishna University, Machilipatnam-521001

*Corresponding Author-somarouthu13@yahoo.co.in

ABSTRACT

Material portrayal is the way toward estimating and deciding physical, substance, mechanical and microstructural properties of materials. This process leads to the higher level of understanding needed to resolve important issues, such as causes of failure and process-related problems, and allows the manufacturer to make critical materials decisions. Materials and devices are becoming increasingly complex. The methods and techniques used to study and characterize them, in-turn, need to be progressively sophisticated. The objective of this review article is the materials characterization lab has wide variety of characterization techniques in the areas of Microscopy, Spectroscopy, and Macroscopic techniques with help to increase the different materials show different properties.

Keywords: Energy Dispersive Spectroscopy, Diffuse Reflectance, Scanning Electron Microscopy, Materials characterization, Fourier Transform Infrared Spectroscopy.

INTRODUCTION

Materials portrayal is a necessary part for understanding the structure-property connections and appropriate material applications. With improvement in science and innovation, portrayal strategies have developed and encouraged comprehension of issue and propelled applications. Portrayal instruments and strategies are currently accessible to evaluate auxiliary just as utilitarian properties of a material. While the portrayal is a significant field for materials researchers, it stays a significant perspective for all designing zones and sciences. Notwithstanding being a multidisciplinary interest, comprehension and deciphering information from portrayals systems can be troublesome and deceiving. Given this, it is critical to think about the portrayals methods and their

Separation of Methyl Violet, Methanil Yellow From Aqueous Media By Cloud Point Extraction

D.S.V.N.M. Ramamurty¹, K. Ramakrishna¹ and T.Sathyanarayana^{2*}

¹ Department of Chemistry, GIS, GITAM (Deemed to be University),
Visakhapatnam-530045

^{2*} Department of Chemistry, Ideal College of Arts & Sciences, PG Courses, Kakinada-
533003

The results of cloud point extraction method for the removal of selected dyes (Methyl violet, Methanil yellow) are presented. The trends in varying influencing factors (viz. reagent, pH, salt, temperature) of OVAT (one variable at a time) experimental design on efficiency of CPE, the thermodynamic quantities (free energy, enthalpy and entropy) of the process and solubilization isotherm are discussed. The optimum operating pH is found to be 6.5-7.0 in extractions of Methyl violet, Methanil yellow. The extraction efficiency of these dyes increases with increasing temperature and TX-100 concentration. The addition of electrolytes enhances the extraction of dyes. An approach to design a cloud point extractor has been proposed to estimate the surfactant required for a known temperature, initial and desired dye concentration. This approach involves calculation of solubilization of dyes in surfactant and variation of fractional coacervate phase volume with operating conditions. A Langmuir isotherm is adequately models the solubilization isotherm of all dyes in TX-100. Statistical correlation analysis explains the variation of the parameters of isotherm with temperature. The cloud point extraction procedure is straight forward unlike many of yesteryears' methods requiring pretreatments.

*Corresponding author Ph: 9949694785; Mail: sntatakuntla@gmail.com

Dr. G. Stoeven Raju

Dr. G. Stoeven Raju, MA, PGDERS, M.Phil, Ph.D. (UGC-NET SET) has been working as a Lecturer and Head of the Department of Economics, Ideal College of Arts and Sciences (Autonomous), Kakinda, Andhra Pradesh, India. He awarded Ph.D from Andhra University, Visakhapatnam. He has more than 20 years of teaching and more than 5 years of Research Experience. He has published more than 20 research papers in various Journals, Periodicals and Seminars/Voluntar. He has been attended/conferred papers in several international and national Seminars and Workshops. He has administrative experience by working in the college. Dr. Stoeven Raju also been acting as an Editor of International Journal of Academic Research (ISSN:2249-7990).



Dr. K. Swarniji, MA (Pol), M.A. (Pub.Ads), Ph.D., was joined as Lecturer in Political Science, Ideal College of Arts and Sciences 'C', Kakinda Since 20/08/2018. He is the AG/MSO of the Department of Political Science ACMSN PG Center, Kakinda. He awarded Ph.D on his research work "Democratic Democratization for the Responsiveness of weaker section in India a case study in Andhra Pradesh" 21.08.2018. He published 4 Research papers in various National and International Journals. He acted as convener in Two Seminars organized by the Department. He is the member of various administrative committees of the College.



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4-957, Srivilliputhur, Kakinda-533 005
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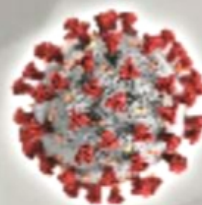
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Impact of COVID-19 on the Migrant Labour in India

Editors

Dr. G.Steeven Raju

Dr.K.Swamiji

First Edition, February, 2021

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ISBN: 978-81-947061-4-4

Published by LIKHITHA PUBLICATIONS

Publisher's Address 4-105/1, Srinivasanagar,
Kakinada-533005,
Andhra Pradesh (India)
Email:likhithapublications18@gmail.com
Website: www.ijar.org.in/lp
Contact: 9948440288

Printed by Typeset and Design by
SS Xerox &Print
Old CBI junction
Visakhapatnam- 530 017,
Andhra Pradesh (India)

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PATTABHI RAMAMOCHAN PATNALA

Asst.Professor

Qualification: MCA & MTech

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Department of Computer Science (Software Development)

IDEAL College of Arts & Sciences(A) – Kakinada.

First Publication Date: April 18th 2022.

Data Base Management System

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ISO 9001:2015 CERTIFIED

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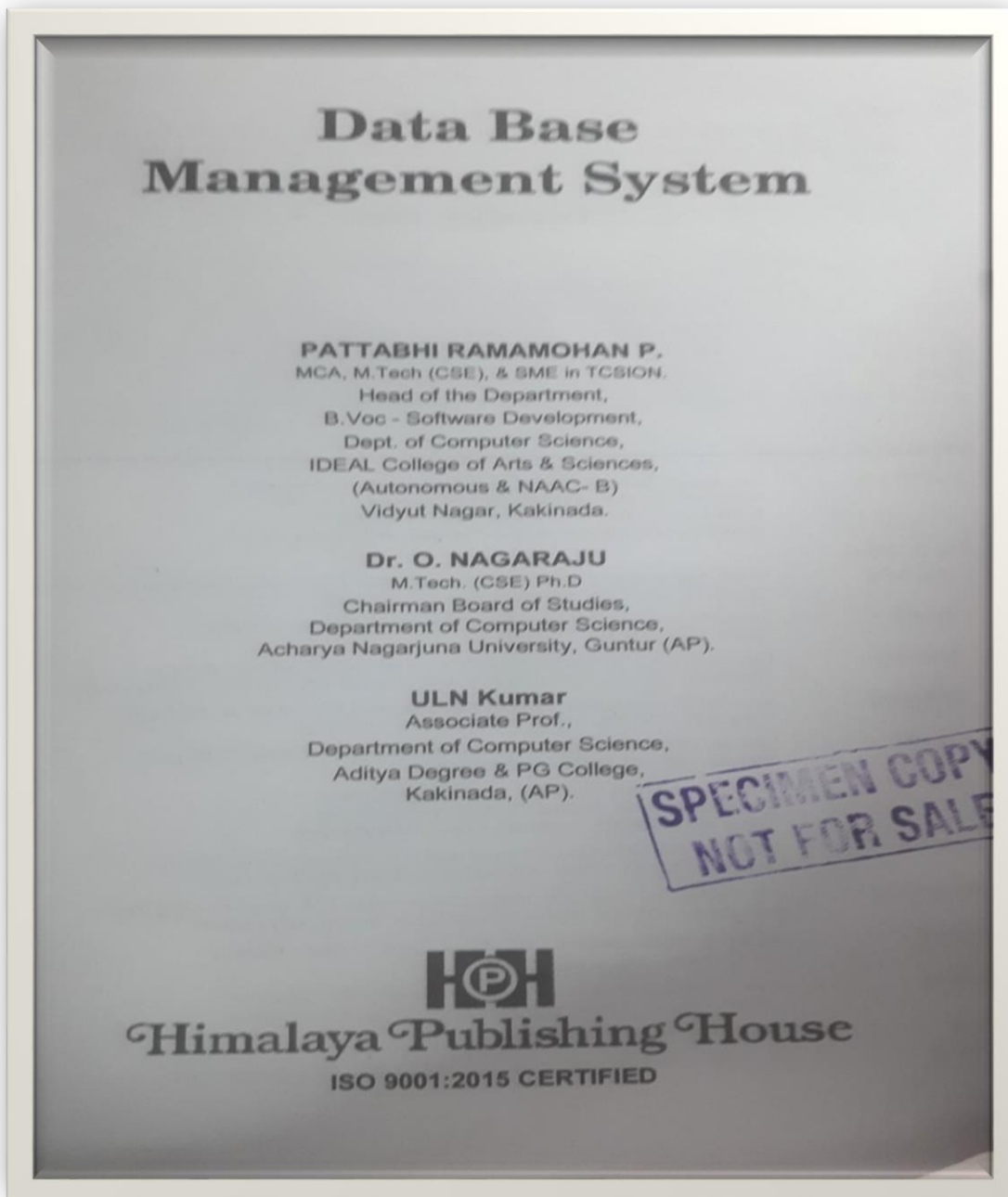
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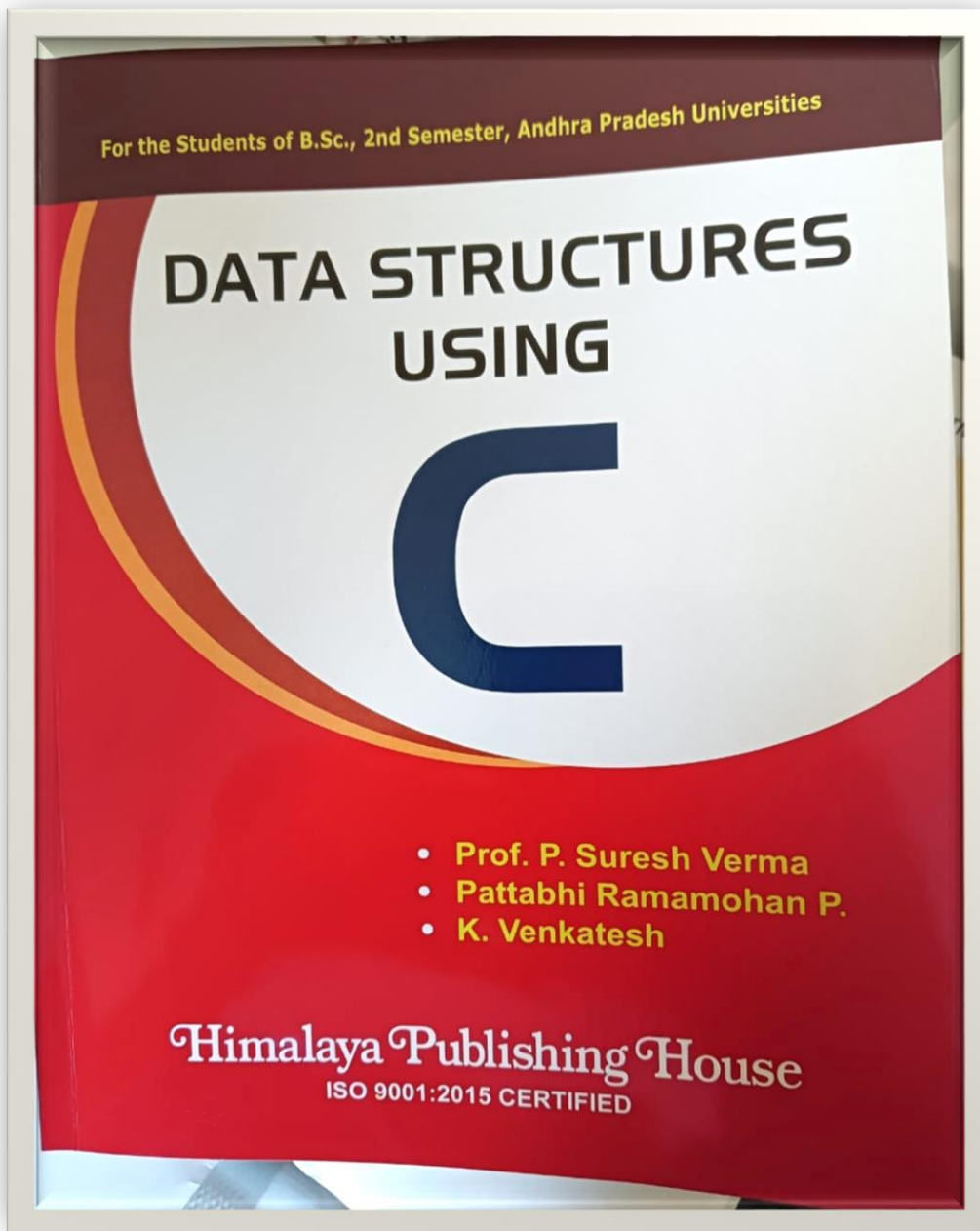
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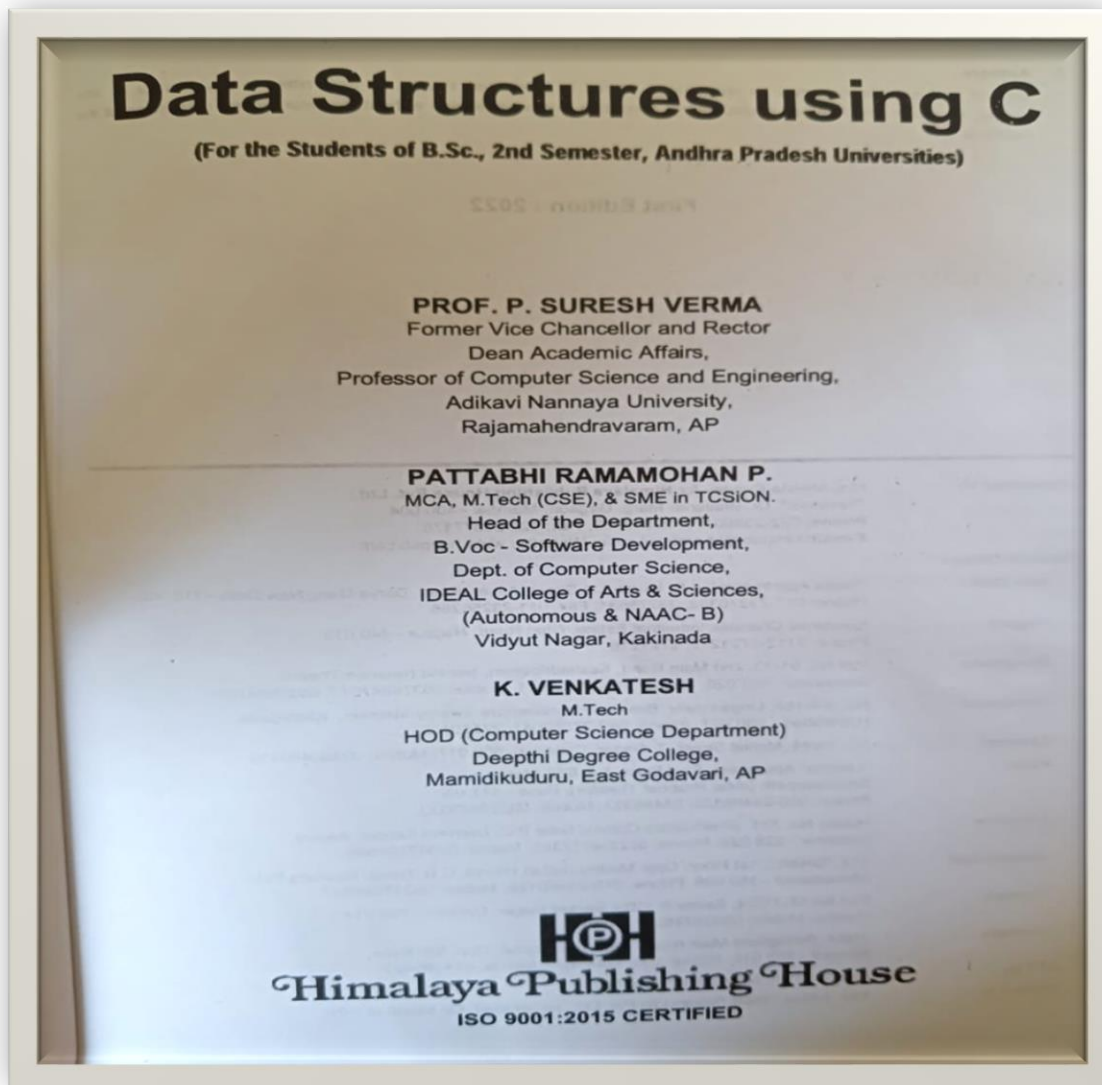
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About the Editor



Dr. G. Steeven Raju, M.A., PGDCRS, M.Phil., Ph.D. UGC-NET, AP-SET has been working as a Lecturer and Head of the Department of Economics, Ideal Collage of Arts and Sciences (Autonomous), Kakinada, Andhra Pradesh, India. He awarded Ph.D from Andhra University, Visakhapatnam. He has more than 20 years of teaching and more than 5 years of Research Experience. He has published more than 20 research papers in various Journals, Periodicals and Seminar Volumes. He has been attended/presented papers in several international and national Seminars and Workshops. He has administrative experience by working in the college. Dr Steeven Raju also been acting as an Editor of International Journal of Academic Research (ISSN:2348-7666).

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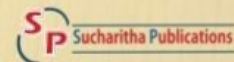
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DEPARTMENT OF ECONOMICS

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International Seminar Proceedings on
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RESOURCE DEVELOPMENT**

Edited by

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MARKETING STRATEGIES TO GO VIBRANT IN DIGITAL Era



Dr. G. STEEVEN RAJU



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TWO DAY INTERNATIONAL SEMINAR
On
Marketing strategies to go vibrant in Digital Era

UGC

8th & 9th FEBRUARY, 2023



Organized by
DEPARTMENT OF ECONOMICS COMMERCE & MANAGEMENT
Ideal College of Arts and Sciences (A),
Kakinada, Kakinada Dist., Andhra Pradesh

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