

PHARMACEUTICS  
REGULATORY AFFAIRS  
PHARMACEUTICAL CHEMISTRY  
PHARMACEUTICAL ANALYSIS  
PHARMACOLOGY  
PHARMACOGNOSY  
PHARMACEUTICAL MICROBIOLOGY  
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BIOINFORMATICS  
COMPETITIVE EXAMS  
GENERAL  
HUMANITIES  
ENVIRONMENTAL SCIENCES  
JOURNALS  
MAJOR REFERENCE



# PharmaMed Press

An imprint of Pharma Book Syndicate  
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## January 2013



IMPRINTS



BS Publications



PharmaMed Press  
(an imprint of Pharma Book Syndicate)



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## Dear Patrons & Well Wishers

We are thankful to you for accepting our publications as text and reference materials for pharmacy courses & research. With the encouragements from you, we are striving to bring new books as well as releasing low cost Indian reprints of well known foreign editions.

**MAJOR REFERENCE:** We have released "Compendium of Organic Medicinal Drugs", a highly reference book in six volumes edited by Dr. Raj B. Durairaj and another well know classic Paech & Tracey "Modern Methods of Plant Analysis" in six volumes is now available at low Indian price of Rs.17,995.00.

**COMPETITIVE BOOKS:** We have released second edition 2012 "Pharmacy Quiz: A Handbook for Competitive Exams". Also, we have released Solved GPAT for 1998-2012 and MCQs in Pharmaceutical Sciences.

**JOURNALS:** We are happy to inform you that new editorial team consisting of Dr. D. Samba Reddy (Texas A & M University Health Science Center, College of Medicine, College Station, Texas, USA) as chief editor, has taken over "International Journal of Pharmaceutical Sciences and Nanotechnology". Also we are glad that our Chief editor, Dr. D. Sriram of "International Journal of Drug Design and Discovery" has been awarded "Shankutala Amirchand Prize" by ICMR. Our journal website are: [www.ijpsnonline.com](http://www.ijpsnonline.com), [www.ijdddonline.com](http://www.ijdddonline.com).

**AWARD:** We have instituted "Best Research Paper Award" to recognize outstanding achievement in pharmaceutical science as demonstrated by the author in quality and originally of the manuscript published in the International Journal of Pharmaceutical Sciences & Nanotechnology and International Journal of Drug Design and Discovery.

**CO-PUBLISHING:** Recently M.U.R. Naidu's : A Practical Guide to Human Research and Clinical Trials book have been accepted by CRC PRESS for Co-Publishing for distribution throughout the world.

**OUR WEBSITE:** We have launched our website [www.bspbooks.net](http://www.bspbooks.net)/[www.pharmamedpress.com](http://www.pharmamedpress.com); which is being constantly looked into for improvement. You can download our complete PRICE LIST, BROUCHERS & OTHER INFORMATION for promotion to your customer.

We are sure, we can expect all the co-operation & suggestions from you in coming year.

**Nikhil Shah & Anil Shah**  
Directors

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## Advances in Drug Delivery

Y. Madhusudan Rao and A V Jithan

New Book Series

Advances in drug delivery is a very specialized area of pharmaceuticals where in the principles and technologies applied in the formulation and development, are emerging and progressing. Advances in Drug Delivery incorporates latest information regarding various subjects of drug delivery. Drug delivery is a broad term encompassing various means of achieving optimum drug reach to the target tissue, cell or the receptor. Several preformulation, formulation, biopharmaceutical, targeting and pharmacokinetic principles are applied in drug delivery. Research and development in drug delivery is increasing at a rapid pace throughout the world. The need for increased efficiency of new therapies and reduction in future public health expenses will definitely bolster this area of research and development. In order to meet this demand, many well known and efficiently applied drugs will be reformulated in new drug delivery systems that can be value-added for optimized therapeutic activity. Further, several new molecules are being generated by medicinal chemists

and their formulation is not any more empirical but it is now very systematic. The aim of book is to enlighten pharmaceutical scientists all around the world with latest information on the topics which are involved in cutting edge growth of pharma research and industry.

### Highlights

- A chapter on hot melt extrusion is included
- Included a chapter on oral disintegrating tablets - a value addition product
- Caters to all those who aim to achieve higher objectives in drug delivery

### Contents:

**Volume - II:** 1. Transdermal Delivery Systems; *Ramesh Gannu and Madhusudan Rao Yamsani* 2. Oral Disintegrating Tablets (ODT); *Y. Shravan Kumar, B. Sunil Kumar and Y. Madhusudan Rao* 3. Resealed Erythrocytes; *P. K. Lakshmi and T. K. Indira* 4. Polymeric Nanoparticles; *A. V. Jithan, Nagasamy Venkatesh and T. Kiran* 5. Bioadhesive Drug Delivery System: A Current Status; *Govind S. Asane and Yamsani Madhusudan Rao* 6. Liver Targeting Drug Delivery; *Jithan Aukunuru and Chandra Shekar Reddy Bonepally* 7. Monoclonal Antibodies; *Y. Madhusudan Rao, D. Sathish and S. Himabindu* 8. Hot Melt Extrusion: A Novel Technique for Improved Drug Delivery of Poorly Soluble Bioactives; *Sunil Kumar Battu and Chinna Reddy Palem* 9. Pulmonary Drug Delivery System; *Anupama Bhadauria and Rakesh P. Patel* 10. Intracellular Drug Delivery Systems; *Aaishwarya Deshmukh and Jayvadan Patel*

2012 527 pp 978-93-81075-88-3 HB Rs. 1795.00

**Volume - I:** 1. Controlled Release Products; *A. V. Jithan, B. Chandrasekhar Reddy and Y. Shravan Kumar* 2. Gastroretentive Drug Delivery Systems; *Y. Madhusudan Rao and B. Suresh* 3. Buccal Drug Delivery Systems; *P. Chinna Reddy, Y. Vamshi Vishnu and Y. Madhusudan Rao* 4. Multiple Emulsions; *B. Chandrasekhar Reddy and A. V. Jithan* 5. Nanoemulsions; *Abheri Das Sarma and Kalyan Kumar Sen* 6. Microspheres; *A. V. Jithan and B. Chandrasekhar Reddy* 7. P-Glycoprotein and CYP3A Limiting Oral Drug Absorption; *Y. Shravan Kumar, A. Bhargavi Latha and Y. Madhusudan Rao* 8. Liquid Crystals; *Mahesh R. Dabhi, Milan D. Limbani and Navin R. Sheth* 9. Chirality in Drug Development; *Y. Madhusudan Rao and S. Jagan Mohan*

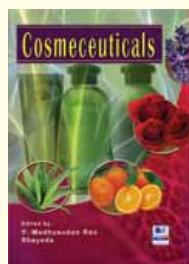
2010 548 pp 978-81-7800-254-5 HB Rs. 1795.00

**Volume - III: Contents (Tentative):** 1. Iontophoresis 2. Solid lipid nanoparticles 3. Orodispersible films 4. Preformulation 5. Colon targeting 6. Hydrogels 7. Nanomedicines in Healthcare Systems 8. Genomics and Proteomics 9. Liposomes 10. Ocular Drug Delivery

### About the Editors

**Prof. Y. Madhusudan Rao**, M.Pharm, Ph.D is currently working as senior professor in University College of Pharmaceutical Sciences, Kakatiya University, Warangal. He with 35 years of experience in teaching and research, 155 research publications, 15 review articles, guided 27 scholars for Ph.D, is having 6 national and 1 international patent. He taught cosmetic technology for B.Pharm and M.Pharm students for more than 13 years. He guided the research work for 3 students at M.Pharm and 1 student for Ph.D in the field of Cosmetics and Cosmeceuticals. He acted as consultant to many industries producing cosmetics and few of the products developed are commercialized and launched. A few more cosmetic products are to be launched this year. Apart from his interest in cosmetics, he has considerable experience and publications in Novel drug delivery systems, Biopharmaceuticals and Pharmacokinetics. He received research projects from various funding agencies.

**A. V. Jithan**, Ph D is currently working as Principal and Professor at Mother Theresa College of Pharmacy, Hyderabad. Dr. Jithan is a recipient of several awards and medals in his entire academic career. He has authored a textbook for M.Pharm. Students with the title: Oral Drug Delivery Technology published by PharmaMed Press, Hyderabad. He has guided number of M.Pharm students and currently guiding Ph.D. candidates. He has 50 peer reviewed publications. He is a recipient of SERC-Fast track grant from DST India.



## Cosmeceuticals

Y. Madhusudan Rao and Shayeda

In cosmetic industries most of the details are kept as secrets and are not fully disclosed. Herbal and Natural Cosmetics and Cosmeceuticals are not discussed properly and very few literatures are available. The evaluation part of the products are mostly not disclosed. This book covers regulatory aspects of Cosmeceuticals in various countries including India. Regulatory aspects also differ in various countries as far as Cosmeceuticals is interpreted differently. In some countries they are equated as Cosmetics, in others they are considered as OTC drugs/drugs. The author has been associated with teaching and research field of cosmetics for more than 30 years. He acted as consultant to many industries producing cosmetics. This book is useful for students of pharmacy (under graduate and post graduate), teachers and people in cosmetic industry and allied fields.

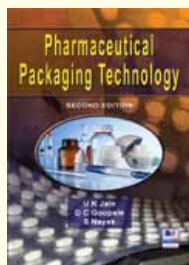
**Contents:** 1. Cosmeceuticals 2. Acne and its Treatment Options 3. Anti-Aging 4. Antiperspirants and Deodorants 5. Sunscreens 6. Hair Dyes 7. Psoriasis 8. Leucoderma and its Treatment 9. Hyperpigmentation and its Treatment 10. Medicated and Antidandruff Shampoos 11. Medicated Toothpastes

### About the Editors

**Prof. Y. Madhusudan Rao (See Same Page)**

**Dr. Shayeda**, is working as Asst. Professor at University College of Pharmaceutical Sciences, Kakatiya University, Warangal. She got two research projects from UGC and AICTE, INDIA. She has publications in national and international journals. Now she is guiding M.Pharmacy and Ph.D students in the field of pharmaceuticals. She has completed her Ph.D in cosmetics and has European patent in the field of cosmetics.

2012 978-93-81075-93-7 423 pp HB Rs. 2495.00



## Pharmaceutical Packaging Technology, 2nd Ed.



U. K. Jain, D. C. Goupale and S. Nayak

Packaging technology has become a separate subject in pharmaceutical sciences due to its vital applications in preserving therapeutic efficacy of drugs. The subject was less understood earlier due to non-availability of complete information. This book presents detailed account in the form of a specialized book on the subject.

Blisters and strips packaging are of growing importance and so a chapter is included on this topic. Parenteral, and ophthalmic products need sterilized packaging, therefore a chapter covering unique features for sterilizing packaging materials has been included. A chapter on regulatory aspects of Pharmaceutical packaging has also been added. Our Reader's demand motivated us to include a chapter on Blow-Fill-Seal (BFS) packaging technology in upcoming second edition of this book.

### Salient Features

- Each chapter is arranged to facilitate the effortless flow of information in simple, motivating, and commonsensical approach.
- Detailed physico-chemical information on raw material e.g. glass, plastic, polymers, metals etc. used in Pharmaceutical packaging is presented.
- More informative emphasize has been made on Pharmaceutical packaging design based on characteristic properties of materials used in packaging.
- A chapter on quality control and stability testing of packages explains the shelf-life concern aspects of the active pharmaceutical ingredient (API).

**Contents:** 1. Pharmaceutical packaging and design, 2. Packaging materials, 3. Polymers and plastics in packaging, 4. Glass as a packaging material, 5. Metals in packaging, 6. Blister and strip packages, 7. Quality control in packaging, 8. Defects in packaging, 9. Stability of packages, 10. Ancillary materials used in packaging, 11. Sterilization of packaging, 12. Packaging of parenterals, 13. Ophthalmic and aerosols, 14. Corrugated fiberboard and cartons, 15. Labelling of pharmaceutical packages, 16. Regulatory aspect of pharmaceutical packaging, 17. Blow-fill-seal (bfs) in pharmaceutical packaging

### About the Authors

**U. K. Jain**, Ph.D, is presently working as Professor and Principal at Bhopal Institute of Technology and Science-Pharmacy, Bhopal (MP) and Group Director of Globus Group of Pharmacy Institutions, Bhopal. He has 22 years of academic and industrial experience in the pharmaceutical field. He has over 60 publications in national and international journals to his credit and "Indian Drugs Manufacturers Association (IDMA) has rewarded him with "Best Research Paper Award 2006" for one of his research paper. He is life member of various Pharmaceutical organizations of national repute.

**D. C. Goupale**, M. Pharm, is presently working as Asso. Professor at Bansal College of Pharmacy, Bhopal (MP). He has 10 years of academic and industrial experience in the field. He has 10 publications in national and international journals to his credit. **S. Nayak**, Ph.D, is presently working as Professor and Principal at Bansal College of Pharmacy, Bhopal (MP). He has 22 years of experience in the field. He has over 65 publications in national and international journals to his credit.

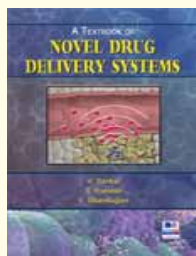
2012

978-93-81075-10-4

290 pp

PB

Rs. 295.00



## A Textbook of Novel Drug Delivery Systems



V. Shankar and S. Ramesh

The first edition of this book entitled "A Textbook of Novel Drug Delivery Systems" consists of 10 chapters and covers basic concepts in mucoadhesive drug delivery system, oral controlled drug delivery system, prodrugs, resealed erythrocytes and transdermal drug delivery systems. This book has been written with clear description, figure along with illustrative examples. In all chapters we discussed about different polymers used, preparation methods and characterization. It will be useful for undergraduate and post graduate students in pharmacy. It will also increase the interest of this subject and made easier for the readers.

**Contents:** 1. Nanoparticles 2. Specific Drug Delivery Systems For Colon 3. Gastro-Retentive Drug Delivery Systems 4. Liposomes 5. Microspheres 6. Mucoadhesive Drug Delivery Systems 7. Oral Controlled Release Drug Delivery Systems 8. Prodrugs 9. Resealed Erythrocytes 10. Transdermal Drug Delivery Systems

### About the Authors

**Dr. V. Sankar**, Professor and Head, Dept. of Pharmacy Practice, P.S.G college of Pharmacy, Coimbatore (Tamilnadu) is an international expert in Biopharmaceutics and Pharmacokinetics. He has been awarded 3 best research paper awards by Bharathidasan University, Alagappa University and Jadavpur University. He has participated 8 International and 12 National conferences. With funding support of Tamilnadu State Council for Science and Technology and Department of Biotechnology, New Delhi, he has conducted 5 research projects. He is the Associate Editor of the International Journal of Pharmacy and is a Research Reviewer for two international journals namely Informa World Journal (UK) and Biosciences Asia (Thailand). He is an active member of pharmacy bodies such as IPA, APTI, IPGA and IHPA. To his credit, he has one textbook on Physical Chemistry and 41 research papers.

**Dr. S. Ramesh**, Associate Professor and Head Dept. of Pharmaceutics, Sri Padmavathi School of Pharmacy, AP (India) got his doctorate degree in 2011 from Jawaharlal Nehru Technological University, Hyderabad. His field of specialization is Nanotechnology and its application in pharmaceutical field. He has attended national conference and published research papers in leading pharmaceutical journals of national and international repute. He also an active Associate member of the Academic pharmacy group of royal pharmaceutical society, London & Member of American Nano Society.

**Mr. V. Shanmugam**, presently working as an Asst. Professor in the Department of pharmaceutics, Sri Padmavathi School of Pharmacy. He has done his post Graduate research work in Central Leather Research Institute, Chennai. He has published his research papers in National and international journals. His field of interests are the Biopolymers and Colloidal drug delivery system. He is the life member of APTI. He is doing his Doctoral research work in the Jawaharlal Nehru Technological university, Kakinada with the support of central drug research institute and Sri Padmavathi School of Pharmacy.

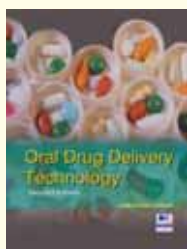
2012

978-93-81075-96-8

138 pp

PB

Rs. 125.00



## Oral Drug Delivery Technology, 2nd Ed.

Aukunuru Jithan

Since the release of the first edition of 'Oral Drug Delivery Technology' book, several things changed such as generic market in India, especially oral formulations has doubled. We are now supplying generic drugs to several countries of the world. Rules of their acceptance into respective markets have rigidified. Exploratory pharmaceuticals in India is still receiving lukewarm attention. However, this is slowly changing in big pharmaceutical companies in India. Now pharmaceutical companies are trying to introduce new drugs into global markets. Strong preformulation teams, intelligent formulators, proficient regulatory managers, superior production managers are now needed more than before.

The second edition has been modified to cater the needs of pharmaceutical professionals in the above mentioned areas in a better way. Although central theme of this edition remained the same as that of the first edition, the following changes have been executed:

- The structure of the book is revamped to give a more elegant look and comprehensive overview. Several chapters have been revised and expanded to provide greater insight.
- The entire chapter on oral formulations has been given a totally new look. Description of all types of oral formulations has been included in this one chapter.
- A chapter on process validation has been added.
- Chapters on safety and toxicity of new drug substances and Pharmaceutical statistics have been deleted to bring more attention to pharmaceuticals and industrial pharmacy.
- The book can be used as a textbook as well as reference book for B.Pharm, M. Pharm and Ph.D. students and can be used as a quick reference by the industrial scientists.

**Contents:** 1. New Drug Substances 2. Biotechnology Products 3. Evaluation of Early Development Candidates: Physical Properties 4. Complementary Techniques for Solid State Drug Analysis 5. Gastro Intestinal Tract Membrane: Drug Transport and Biopharmaceutics 6. Drug Absorption Assessment 7. Drug Absorption Enhancement 8. Salt Selection and characterization 9. Prodrugs: Design, Kinetic Study and Synthesis 10. Regulatory Affairs 11. Oral Formulations 12. Pharmacokinetics 13. Clinical Trials and Bioavailability Studies 14. Pharmaceutical Technology 15. Product Processing and Evaluation 16. Process Validation 17. Quality Control 18. Dissolution Testing 19. Statistical Quality Control

### About the Author (See page no. 3)

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Ajay Semalty, Mona Semalty and M.S.M. Rawat

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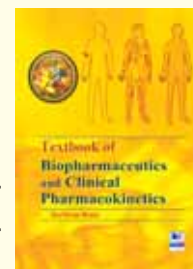
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Niazi Sarfaraz

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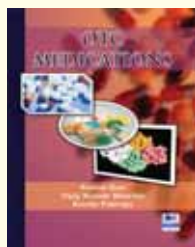
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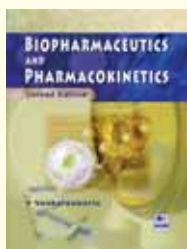
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Jennifer J. Dressman and Johannes Kramer

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Milo Gibaldi

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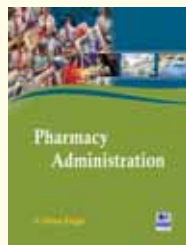
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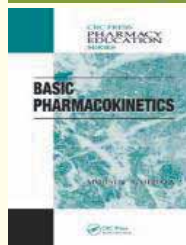
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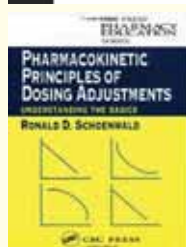
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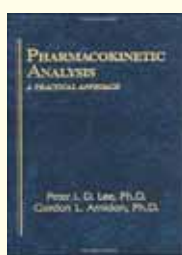
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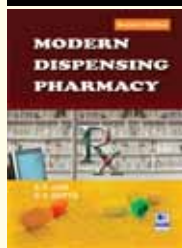
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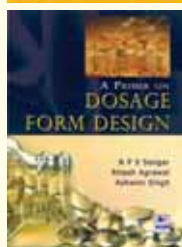
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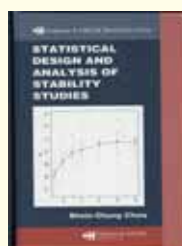
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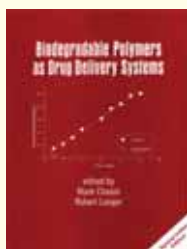


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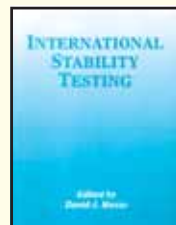
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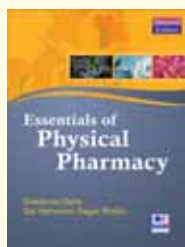
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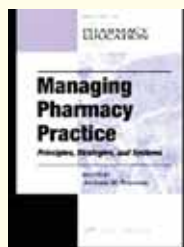
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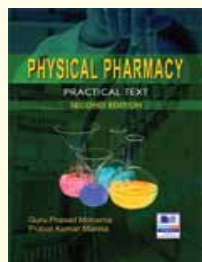
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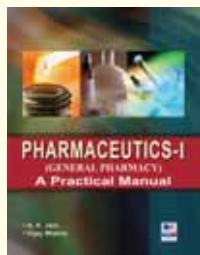
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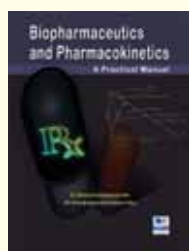
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### About the Authors

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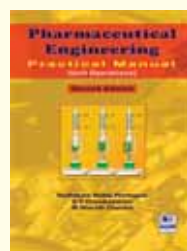


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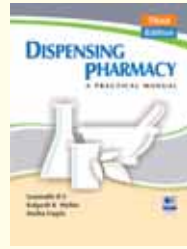
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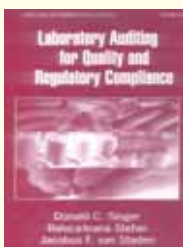
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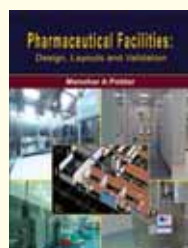
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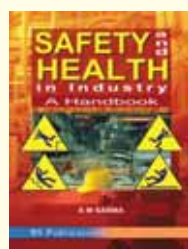
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Dr. Durairaj obtained his Ph.D degree in Synthetic Organic Polymer Chemistry in 1981 from the University of Madras, India. He then moved to USA and worked as a researcher at Case Western Reserve University, Cleveland, Ohio (1981-1982), Drexel University, Philadelphia (1982-1985) and University of Connecticut, Storrs (1985-1986) before joining Koppers Company (Now Indspec Chemical Company) in 1986. For the past 30 years, Dr. Durairaj worked on various aspects of synthetic organic and polymer chemistry.

Dr. Durairaj is the author of a book titled "Resorcinol: Chemistry, Technology and Application" published by Springer from Germany in 2005. He has published more than 42 technical papers and presentations published in international journals and proceedings. To his credit, he has published more than 122 international patents and publications. He is the inventor of several commercial (Penacolite® B-20-S) resorcinol based chemicals and resins.

**Magesh Sathaiah**, MD, is currently working as a Research Associate at the Hillman Cancer Center, University of Pittsburgh Hillman Medical Center (UPMC), Pittsburgh, USA. Previously, he worked as a Research Fellow on a project "Biological Therapy in the Treatment of Cancer", funded by National Institute of Health (NIH), USA for two years.

Dr. Magesh Sathaiah graduated from the Dr. MGR Medical University, Chennai in 2005. His research is primarily focused on the novel biological therapies for cancer treatment, which include engineering oncolytic poxviruses for treating colon cancer. He has published more than 10 research papers in both gene therapy and clinical research.

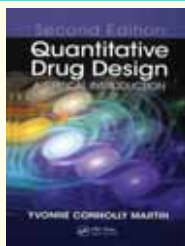
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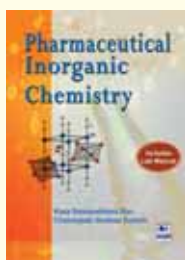
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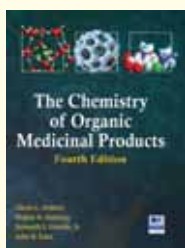


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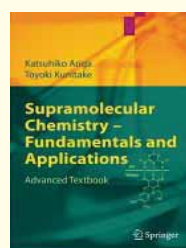
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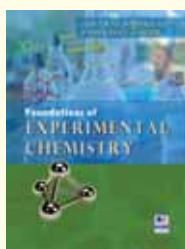
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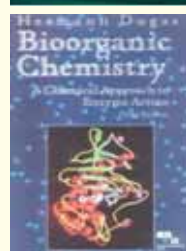
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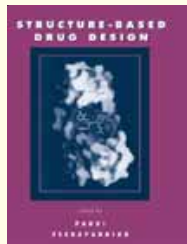
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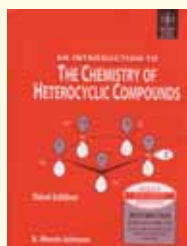
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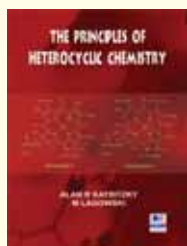
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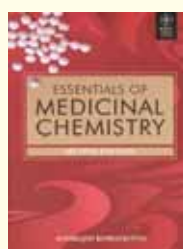
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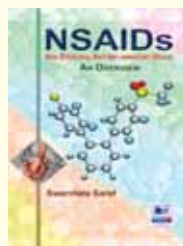
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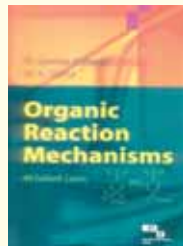
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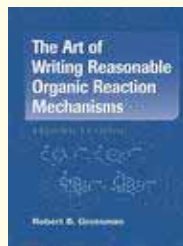
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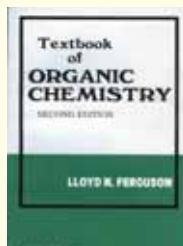
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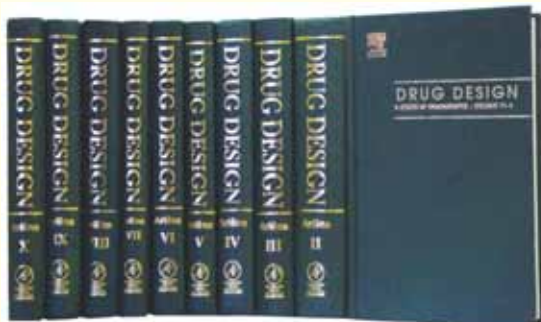


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**Akkinepally Raghuram Rao** is currently Professor and Head, Pharmaceutical Chemistry Division, Kakatiya University (KU), Warangal and well-known for his contributions in the field of medicinal chemistry teaching and research. A Gold Medalist in M. Pharm. (Andhra University, 1984), Professor Rao had his early training under renowned teachers like Prof. E. Venkata Rao (M. Pharm.), Prof. V. Malla Reddy (Ph. D.) and Prof. J. Reisch (Post-doc at University of Muenster, Germany). Serving at KU over two and half decades, Prof. Rao also taught pharmaceutical chemistry in Germany, Kingdom of Saudi Arabia and Panjab University, Chandigarh. He received DAAD Fellowship (Germany), Career Award (AICTE) and Dr (Mrs) Manjushree Paul Memorial Award for Best Pharmaceutical Scientist 2010 (APTI). He published over eighty research publications in National and International journals and serving as a member of Editorial and Advisory Boards of several leading journals. Being a technical consultant to four industries, Prof. Rao has six patents and three of his molecules are in preclinical studies for breast cancer therapy.

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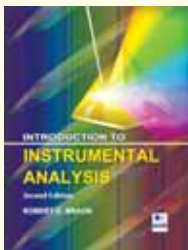
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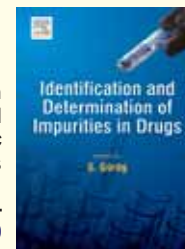
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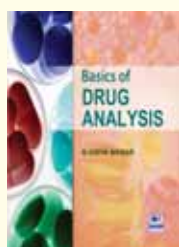
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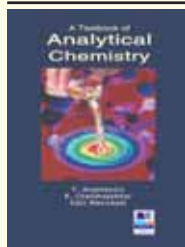
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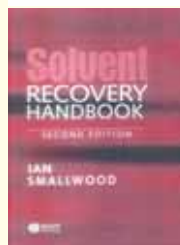
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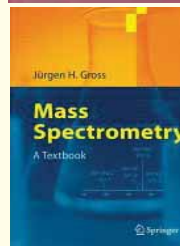
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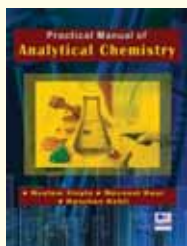
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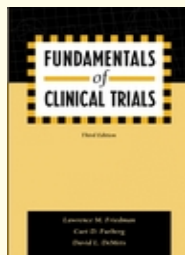
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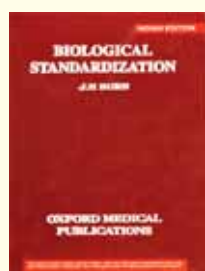
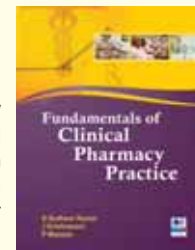
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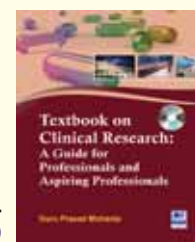
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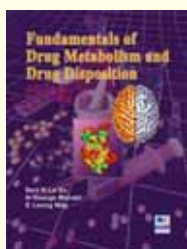
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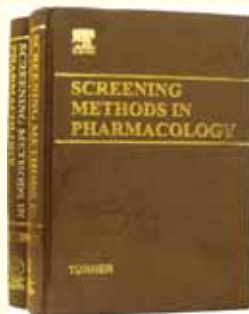
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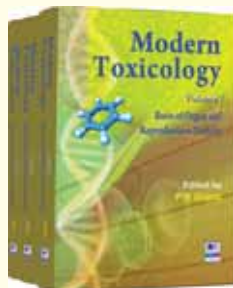


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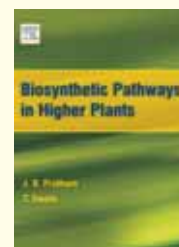
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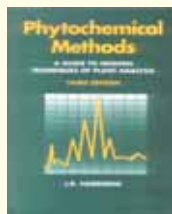
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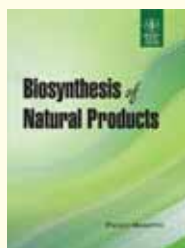
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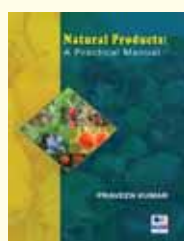
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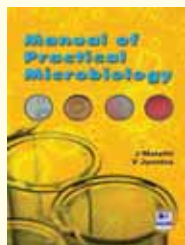
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applying to all fields of analysis from petroleum to heavy metal alloys. When they appear in the methods section of papers on specialized biochemical subjects they may be obscured by a title and discussion giving no hint of the presence of a valuable method or of its general applicability. As a result new methods very often do not immediately reach those manifold groups of research workers to whom they would be of the greatest use.

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A part from the study of plant metabolism in which analytical methods are essential many branches of pure botany, originally not concerned with the chemical composition of plants, have developed in such a way as to depend on accurate knowledge of the nature and amounts of plant constituents. This applies among others to genetics, the physiology of growth, and taxonomy. The scattered publication of analytical methods and lack of experience in judging chemical methods makes it hazardous for many of the newcomers in the field of plant analysis to find or select the best available methods for their purposes. The collection offered in this handbook may help to pave the way for tackling problems in those fields of pure botany where chemical components are useful as indicators of the varied activities of the living plant cell.

It is not in the scope of this work to produce a handbook of plant metabolism or a biochemical system of plant substances. Had it been, then the structure of the book and the arrangement of the contents would have been more logical than that which has been imposed by the purely analytical considerations that prevail in the present work, for example, mineral substances could not have been separated from many other sections. The ambition of the editors, however, was to produce a laboratory manual of the highest standard possible.

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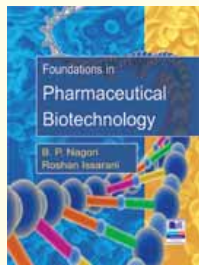
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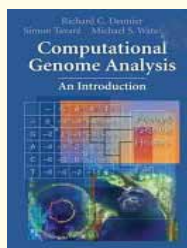
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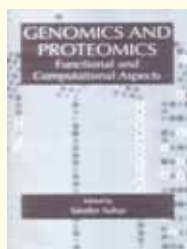


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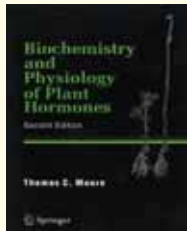
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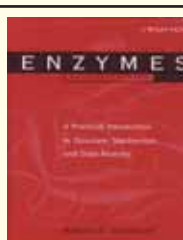
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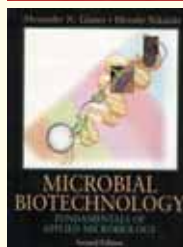
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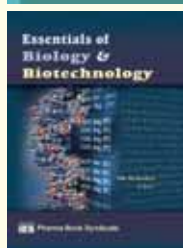
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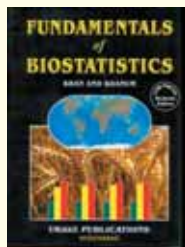
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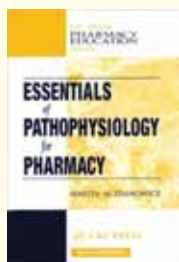
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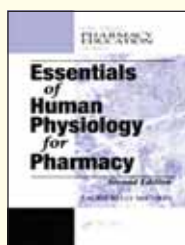
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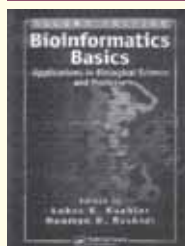
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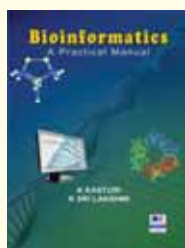
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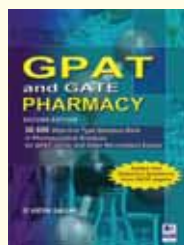
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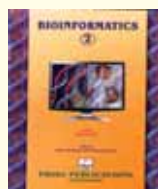
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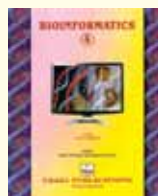
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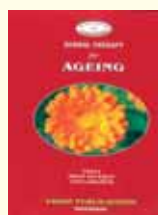
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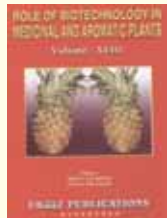
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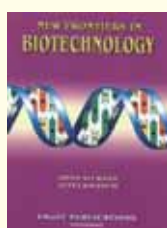
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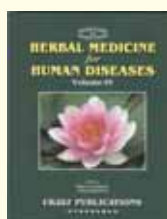
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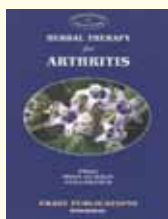
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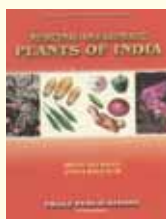
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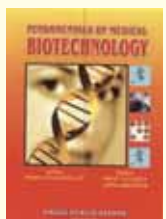
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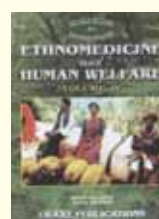
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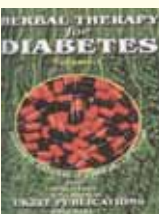
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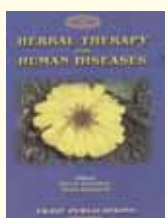
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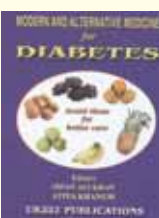
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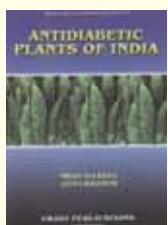
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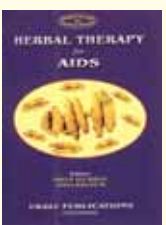
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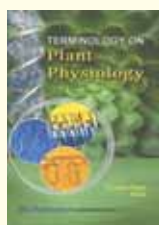
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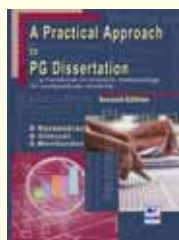
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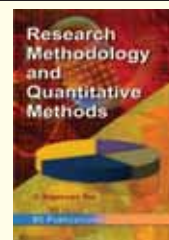
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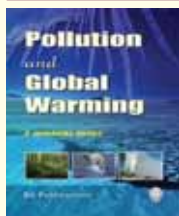
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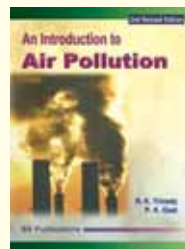
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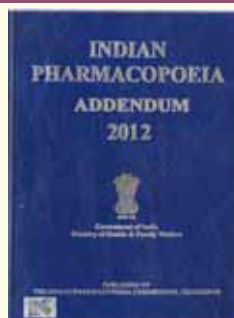
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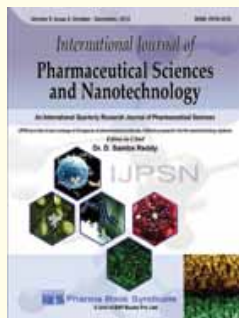
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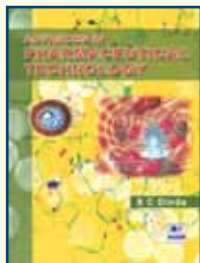
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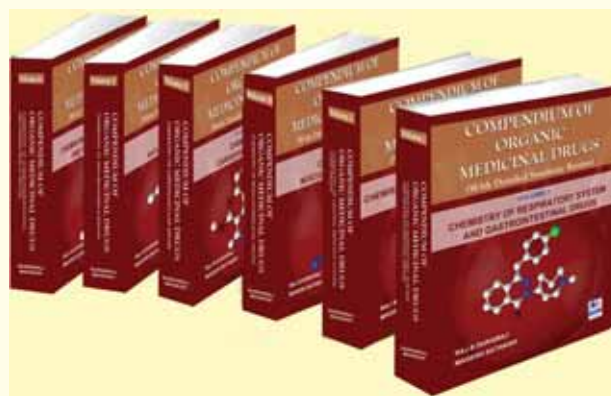
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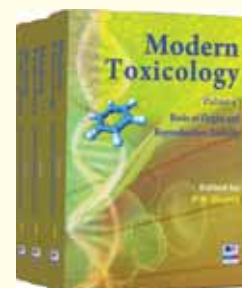
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