



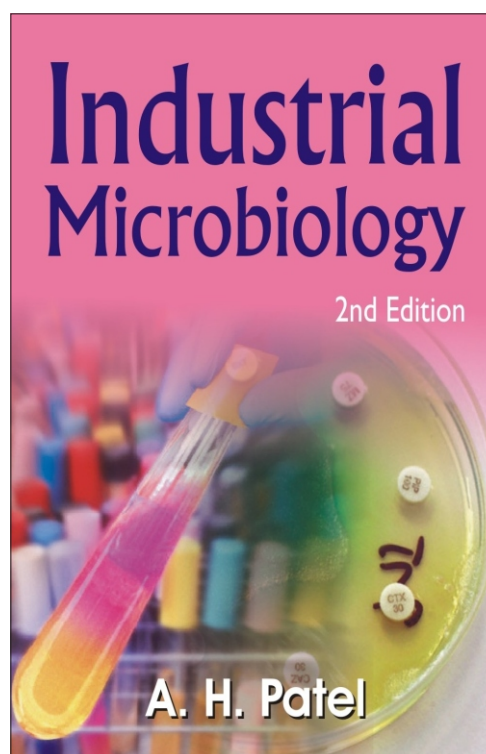
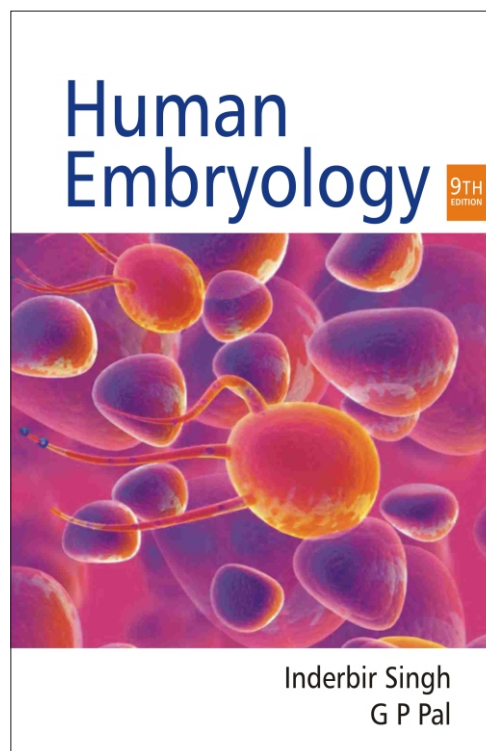
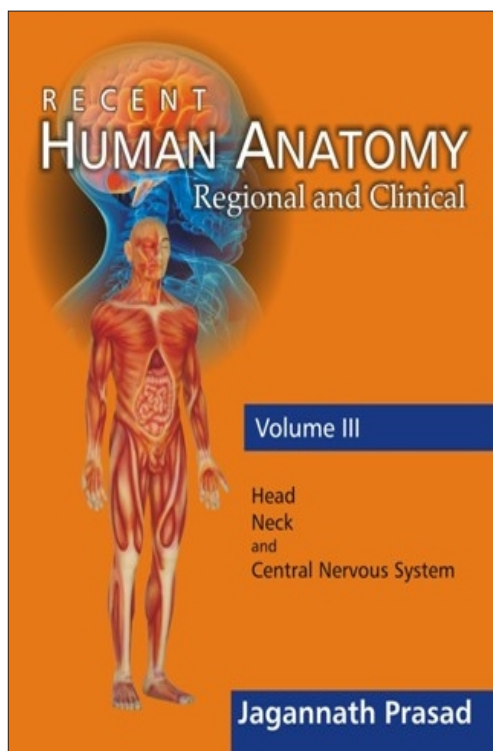
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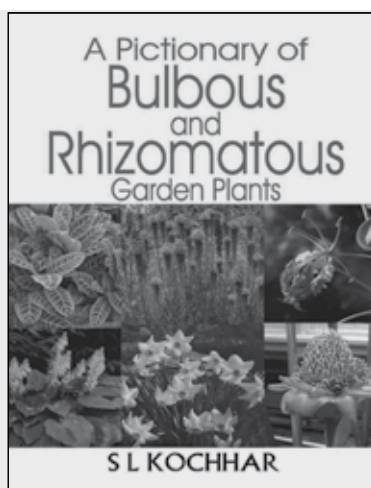




## Science Including Medicine 2012-13

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Author: S L Kochhar

ISBN: 978-0230-33032-0 | HB

Pages: 160 | Price: ₹ 2800.00

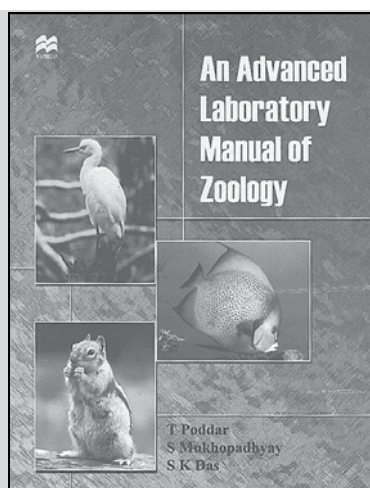
Rights: World

#### About the Book

- The book covers about 80 ornamental, rhizomatous, & bulbous plants and their details are presented in more than 150 colour photographs.
- Plants from tropical, subtropical & temperate regions have been covered.
- Each plant discussed in the book is supported by their English common names, botanical names and the name of the family to which it belongs. The book also describes nativity and geographical distribution of each plant.
- The book covers botanical features as well as time of sowing and time of flowering of each plant.
- It book also discusses the propagation and multiplication of each plant.

#### Contents

Achimenes • Allium • Alpinias • Amaryllis • Amazon Lily • Aussie Plume • Barberton • Bat Plant • Beehive Ginger • Begonia • Bird of Paradise Flower • Blackberry Lily • Blue African Lily • Caladium • Calatheas • Canna Lily • Crape Ginger • Crocus • Crown imperial • Cyclamen • Daffodil & Narcissus • Dahlia • Day Lily • Elephant Ear • Football Lily • Fox-tail Lily • Freesia • Ginger Lily • Gladiolus • Glory lily • Gloxinia • Grape hyacinth • Guernsey Lily • Harlequin Flower • Heliconias • Hyacinth • Iris • Jacobaeae Lily • Kaffir Lily • Lilies • Lily of the valley • Marantas • Montbretia • Ornamental Bananas • Oxalis • Peruvian Lily • Pineapple Flower • Plantain Lily • Rattlesnake Plant • Red hot poker • Scented gladiolus • Spider Lily • Spider or Swamp Lily • Spider plant • Star of Bethlehem • The tiger Flower • Torch Ginger • Tuberose • TUL IP • Turban Buttercup • Wind flower • Zephyr Lily



Author: Poddar | Mukhopadhyay | Das

ISBN: 978-0333-93827-0 | HB

Pages: 502 | Price: ₹ 355.00

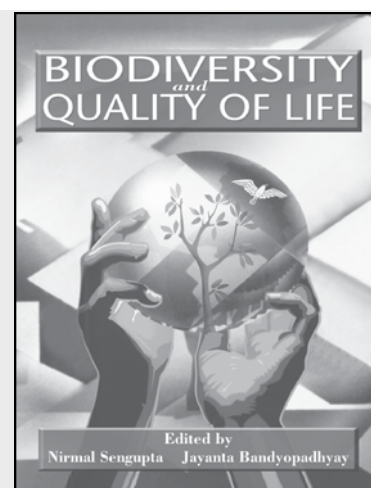
Rights: World

#### About the Book

Tapan K Poddar, Reader in Zoology, Bangabasi College, Kolkata.  
Somnath Mukhopadhyay, Reader in Zoology, Bangabasi College, Kolkata and a guest faculty in the Postgraduate Department of Zoology, Dinabandhu Andrews College, Kolkata.  
Swapan K Das, Researcher, Department of Medicine, University of Arkansas for Medical Sciences, United States of America.

#### Contents

Introduction to the Living World (Protoctista and Animalia) • Developmental Biology • Cytology and Genetics • Physiology and Biochemistry • Parasitology and Microbiology • Osteology • Histology and Histochemistry • Applied Zoology • Environmental Studies • Statistics in Biology • Dissection • Extended Classroom • Assess Yourself • Appendices • Extended Glossary • Bibliography



Authors: Sengupta

ISBN: 978-1403-92744-6 | HB

Pages: 368 | Price: ₹ 850.00

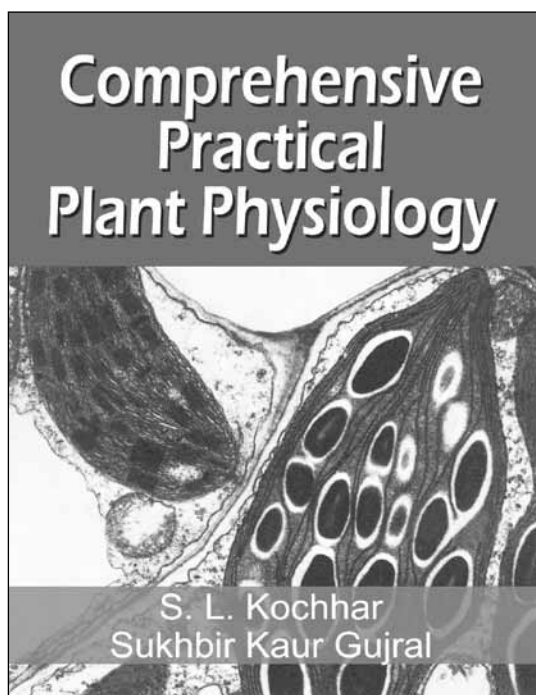
Rights: World

#### About the Book

This book incorporates a sensitive and diverse assemblage of the various ideas in the discourse put forward during the 2003 INSEE conference on 'Biodiversity and quality of life' organized by the centre for Development and Environment Policy at IIM Calcutta. The volume has metamorphosed into to interesting and useful compendium of select papers containing a wide array of experience from conceptual analyses to field level case studies. The volume benefits from the valuable contribution of Biologists, economists and, policymakers, environment activist alike. Selected papers presented in the technical sessions explore the recent trends and possible application of new tools that could help make quality of life on Earth better and more sustainable.

#### Contents

Foreword • Preface • Acknowledgements • List of Contributors • Part I Overview • Conservation and the Future: Trends and Options Toward the Year 2025 • The Role of Ecosystems in Sustainable Development • The Economics of the Environment: Lessons from Ecology • Economics of Indigenous/Traditional Knowledge about Biodiversity • Weaknesses of Existing Data-sets on Mountain Ecosystems – Evidences from Natural Terrestrial Ecosystems in the Himalaya • A National Plan Process, Built from Below: The National Biodiversity Strategy and Action Plan, India • Part II Methodology • Linking Biodiversity with Quality of Life: Issues of Assessment, Resilience and Model Integration • Economic Impact of Ecosystem Degradation and Options for Sustainable Resource Management: The Case of Cochin Estuarine Fishery, Kerala • Evaluating Economic Sustainability of Urban and Peri-Urban Waterbodies: A Case Study from Kolkata Ponds .



# Comprehensive Practical Plant Physiology



SBN: 978-0230-32446-6

Pages: 552 | Price: ₹ 375.00 | HB

Rights : World

*Author*

KOCHHAR

S L Kochhar taught courses in Economic Botany and Plant Physiology at SGTB Khalsa College, University of Delhi, from 1965-2007. He graduated from Punjab University, Chandigarh, where he was awarded the Atomic Energy Commission Scholarship.

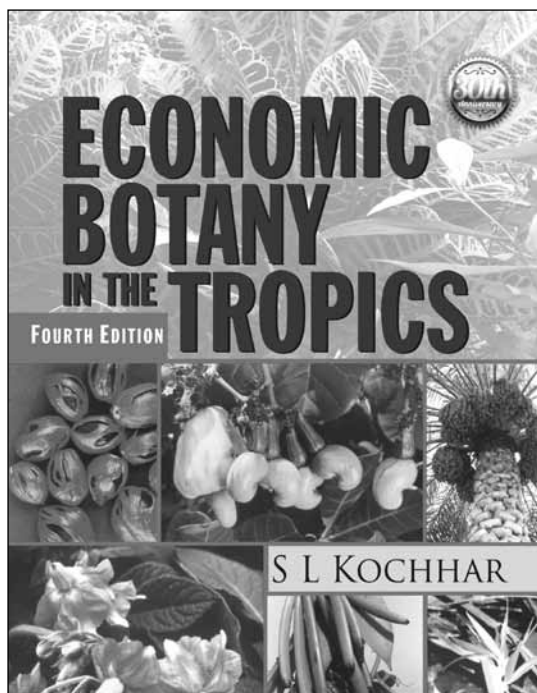
## About the Book

Comprehensive Practical Plant Physiology is an endeavour to integrate experimental details with relevant theoretical information in the field of plant physiology, thus enabling students to have an access and a deeper insight into their experimental findings. The material is presented in a concise and lucid manner which the students will find easy to assimilate. The book, unlike other practical books available on the subject, provides due emphasis to the conceptual framework.

Organized into two major sections, the book in the first section provides an introduction to key concepts of each chapter, followed by actual experiments to be conducted by the students in their semester course work. Each experiment section concludes with few sample questions that can possibly be asked during viva-voce. Demonstration experiments follow next with a set of questions. Various laboratory techniques, and project works that can be undertaken by the students have also been discussed. Microchemical tests for major plant constituents are included at the end.

## Contents

Water A Universal Solvent. Diffusion, Imbibition, Osmosis and Water Potential Concept • Permeability • Absorption of Water • Ascent of Sap • Transpiration • Mineral Nutrition A Broad Perspective • Enzymes • Photosynthesis • Respiration • Nitrogen Metabolism • Lipid Metabolism • Phloem Transport • Growth and Development A General Account • Plant Hormones A Historical Perspective • Secondary Plant Metabolites • Stress Physiology • Laboratory Techniques • Distinguish Between the Following Sets • Explanatory Notes on Key Physiological Phenomenon • Review Questions with Answers • Plant-Water Relations • Cellular Metabolism-Both Anabolic and Catabolic • Translocation of Photoassimilates • Growth and Related Phenomenon • Seminal Contributions of Plant Physiologists • The Status and Development of Plant Physiology in India • Metabolic Cycles



## Economic Botany in the Tropics (4/e)



ISBN: 978-9350-59067-6

Pages: 704 | Price: ₹ 395.00 | HB

Rights : World

*Author*

KOCHHAR

S L Kochhar taught courses in Economic Botany and Plant Physiology at SGTB Khalsa College, University of Delhi, from 1965-2007. He graduated from Punjab University, Chandigarh, where he was awarded the Atomic Energy Commission Scholarship.

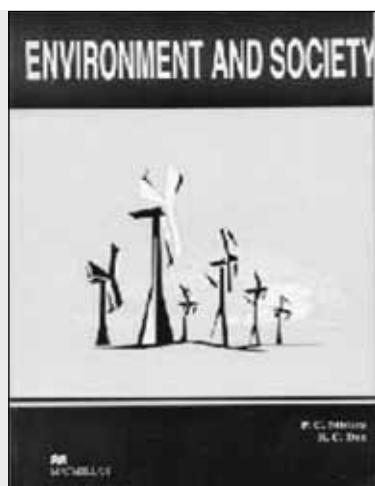
### About the Book

This highly acclaimed text is aimed at students pursuing diploma, degree and post-graduation in Agriculture, Horticulture and Botany. It can be used both as a main text and a major reference work. It will also be of interest to food scientists, nutritionists and pharmacologists. The fourth (30th Anniversary) edition endeavours to include information much needed by the students while preparing for their semester course work, for example, 'TPS technology', 'sugarcane propagation and its breeding strategies', aquatic plants as a source of human food', 'difficulties encountered during mango cultivation', role of antioxidants and unsaturated fatty acids in human nutrition, and 'common name for some foods consumed during Indian festivals.

The Indian production data for many major crops (2007-08) has been included. Some of the line diagrams such as that of black pepper, chillies, fennel and coriander have been recast, and made more informative. Many colour photographs of major crops and exotic flowers have been included to help the students correlate theoretical details with the visuals and further help them to identify with ease the economically useful plants collected during field excursions. This book will be of immense value to the students and scholars of Botany, Agriculture (including Horticulture) and garden enthusiasts.

### Contents

Introduction • Fibres and fibres yielding Plants • Cereal Crops • Sugars, Starches and Cellulose products • Legumes or Pulses • Vegetable Oils and Fats • Fruits and Nuts • Vegetables • Spices, Condiments and other Flavourings • Fumitory and Masticatory materials • Beverages • Wood and its uses • Vegetable Tannins and Dyestuffs • Rubber • Medicinal Plants • Insecticides and Herbicides • Essential Oil-Yielding Plants • Green Revolution-An Overview • Transgenic Crops: Objectives, Achievements and Concerns • Plant Biotechnology is Essential for an Economically rewarding and Environmentally sustainable Agriculture • Nikolai Ivanovich Vavilov – His Life and Accomplishments • Plant Introduction Activities: An Indian Perspective • Plant Diversity and its Conservation • Petrocrops – Our Future Fuels • Ethnobotany – A Newly Emerging Field • Index



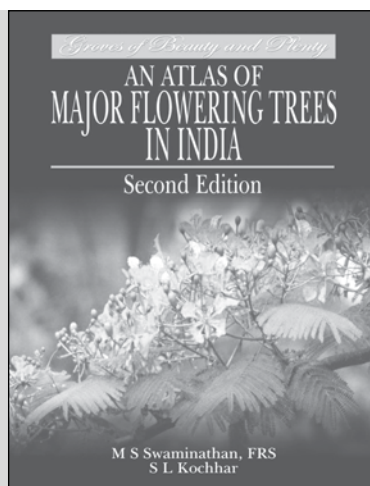
**Authors:** P C Mishra | R C Das  
**ISBN:** 978-0333-93640-5 | PB  
**Pages:** 158 | Price: ₹ 85.00  
**Rights:** World

#### About the Book

This book has been written to meet the requirements of undergraduate students of humanities and commerce disciplines. An effort has been made to simplify complex scientific concepts and sensitize students towards social and economic issues.

#### Contents

Basic Concepts • Environmental Problems (Pollution) • Human Population Growth • Environment and Society • Communicable Diseases • Environmental Laws • Environmental Planning and Management • Glossary



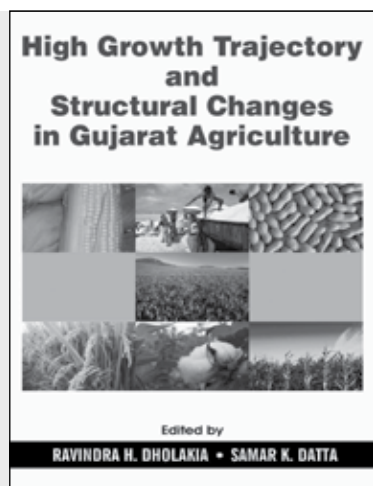
**Authors:** M S Swaminathan | S L Kochhar  
**ISBN:** 978-1403-93150-4 | HB  
**Pages:** 340 | Price: ₹ 1,099.00  
**Rights:** India

#### About the Book

From the very early times forests have played a crucial role in the survival of human beings, providing them with the very basics of life. More than a thousand varieties of trees occur naturally in India and are treasured for their economic and cultural significance. This Atlas covers close to 150 trees and portrays their botanical details through more than 440 colour photographs.

#### Contents

Preface to the Second Edition • Preface to the First Edition • Acknowledgements • Tree Wealth of India: An Overview • Magnoliaceae • Dilleniaceae • Annonaceae • Bixaceae • Cochlospermaceae • Capparaceae • Malvaceae • Bombacaceae • Elaeocarpaceae • Sterculiaceae • Rutaceae • Simaroubaceae • Ochnaceae • Meliaceae • Averrhoaceae • Rhamnaceae • Sapindaceae • Anacardiaceae • Moringaceae • Rosaceae • Fabaceae • Lythraceae • Myrtaceae • Combretaceae • Other Terminalia Species • Lecythidaceae • Rubiaceae • Sapotaceae • Ebenaceae • Ehretiaceae • Verbenaceae • Oleaceae • Apocynaceae • Asclepiadaceae • Bignoniaceae • Lauraceae • Santalaceae • Proteaceae • Euphorbiaceae • Moraceae • Platanaceae • Moraceae • Other Ficus Species • Casuarinaceae • Musaceae • Pandanaceae • Arecaceae • Some Other Flowering Trees Grown in Tropical Gardens • References • Vernacular Names in Different Indian Languages • Index of Scientific Names • Index of Common English Names



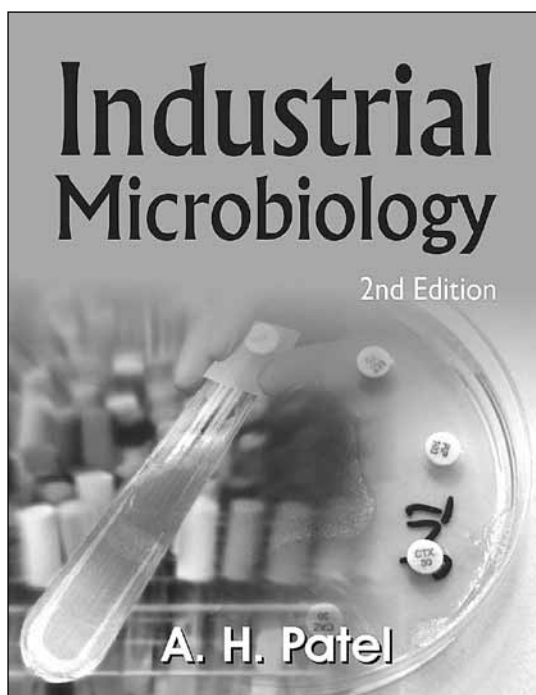
**Author:** Ravindra H Dholakia | Samar K. Datta  
**ISBN:** 978-0230-33001-6 | PB  
**Pages:** 192 | Price: ₹ 175.00  
**Rights:** World

#### About the Book

The amazing growth in Gujarat agriculture of late has attracted a lot of attention in the national and international agricultural policy related bodies. A near double digit annual real growth rate of agriculture over a span of more than a decade in Gujarat has become a phenomenon most have chosen to call a miracle. The agricultural growth story of Gujarat deserves better description than miraculous, magical, or incredible. The spectacular agricultural growth in Gujarat in recent times has been a result of well thoughtout strategy, meticulously planned and co-ordinated scheme of action, sheer hard work and sincere implementation of programmes, political will to take bold decisions and commitment to economic policy reforms by the state government.

#### Contents

Has Agriculture In Gujarat Shifted To High Growth Path • Five Decades Of Gujarat Agriculture: Some Reflections • The Economics And Contribution Of Cotton Biotechnology In The Agricultural Growth Of Gujarat • High Value Crops And Gujarat's Agricultural Growth: Cases Of Castor And Psyllium (Isabgol) • Examining Gujarat's 'Success Story' In Fruits And Vegetables • Livestock Development In Gujarat In 2000s: An Assessment • The Role Of Irrigation In The Growth Story Of Gujarat • Linkages Of Agricultural Exports And Infrastructure Development In Gujarat • Appendix: Short-Term And Medium-Term Prospects Of Agricultural Sector In Gujarat – Some Policy Recommendations



## Industrial Microbiology, 2/e



ISBN: 978-9350-59008-9

Pages: 512 | Price: ₹ 365.00 | PB

Rights : World

*Author*

A H PATEL

Arvind H. Patel is an Adjunct Professor of Microbiology at Bergen Community College, Paramus, New Jersey. Earlier, he taught Introductory Microbiology at Essex County College, Newark, New Jersey. He received his M. Sc. from J. J. College of Science, an affiliate of Gujarat University.

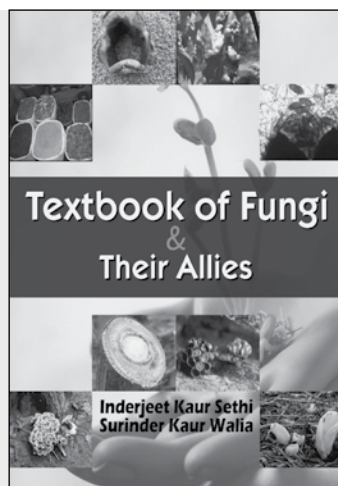
### About the Book

Industrial Microbiology, Second Edition, provides the reader with grounding in both the fundamental principles of microbial physiology and various traditional and modern applications of micro-organisms to industrial processes. Most of these have been made possible (or enhanced) by recent developments in genetic engineering.

The book discusses key aspects of microbial physiology, exploring the versatility of microorganisms, their diverse metabolic activities and products. It divulges the role of industrial micro-organisms, and the technology required, in large-scale cultivation and isolation of fermentation products, and in pollution control. It investigates a wide range of established and novel industrial fermentation processes and microbial products including enzymes, foods, beverages, chemical feed stocks, fuels, bio-fertilizers and pharmaceuticals. This book, thus, presents clearly and accurately all aspects of production and processing methods for microbial products of major economic, environmental, and social importance.

### Contents

Introduction • History of Development • Understanding the Enzymes • Bio-energetics • Metabolism • DNA and Mutation • Genetic Recombination • Genetics Aspects of Enzyme Regulation • Some Important Techniques • Production Strains • Microbial Transformations • Production Media • Industrial Sterilization • Principal Types of Fermentors • Computer Control of Fermentation Processes • Microbiological Assay • Antibiotics • Organic Acids • Enzymes • Solvents • Amino Acids • Vitamins • Yeast and Its Uses • Production of Single-cell Proteins • Microbial Insecticides • Microbial Fertilizers • Fermented Foods • Sewage and Sewage Disposal • Vaccines • Index



*Author:* Inderjeet Kaur Sethi |  
Surinder Kaur Walia

**ISBN:** 978-0230-33077-1 | HB

**Pages:** 788 | **Price:** ₹ 395.00

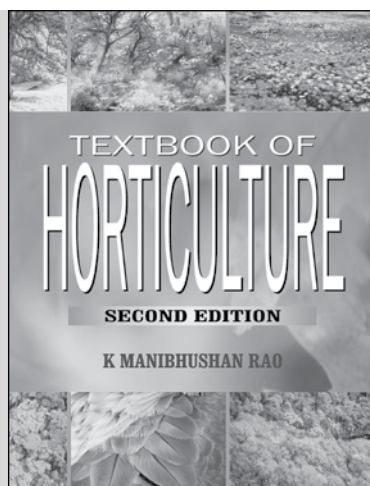
**Rights:** World

#### About the Book

This book aims to not only provide an insight into the fundamental and basic concepts of mycology in a simple manner, but also exposes students to the complexities of the fascinating world of fungi. Mycology is a vigorous field. Rapid developments are occurring in the area of fungal systematics. Hence, this book is based on the latest phylogenetic information and principles involved in their classification. All efforts have been made to include current and relevant information for the benefit of students. This text book is a result of years of authors' involvement in the teaching and research activities in Mycology and Phytopathology.

#### Contents

Part 1: General Issues • Introduction: Fungi and their Significance • Mycological Studies: Past and Present • Characteristics of Fungi • Classification of Fungi • Part 2: Allied Fungi • Protozoa: Myxomycota (Slime Moulds) • Protozoa: Plasmodiophoromycota • Straminipila: Oomycota and other Minor Fungal Phyla • Part 3: True Fungi • Chytridiomycota • Zygomycota • Ascomycota • Archiascomycetes • Hemiascomycetes: The Ascomycetous Yeasts • Plectomycetes • Hymenoascomycetes: Pyrenomycetes • Hymenoascomycetes: Erysiphales and Laboulbeniales • Hymenoascomycetes: Operculate and Inoperculate Discomycetes • Loculoascomycetes • Basidiomycota • Homobasidiomycetes • Homobasidiomycetes: Gasteromycetes • Heterobasidiomycetes • Urediniomycetes: Uredinales (Rust Fungi) • Ustilaginomycetes: The Smut Fungi • Anamorphic Fungi (Deuteromycota) • Part 4: Fungal Associations • Lichens • Mycorrhizae • Part 5: Activities of Fungi • Applied Mycology • Part 6: Appendices • Appendix 1: Some Important Systems of Classification • Appendix 2: Milestones in Mycological Studies • Appendix 3: Sources of Opening Photos, Figures and Plates



*Authors:* K Manibhushan Rao

**ISBN:** 978-1403-92818-4 | HB

**Pages:** 188 | **Price:** ₹ 750.00

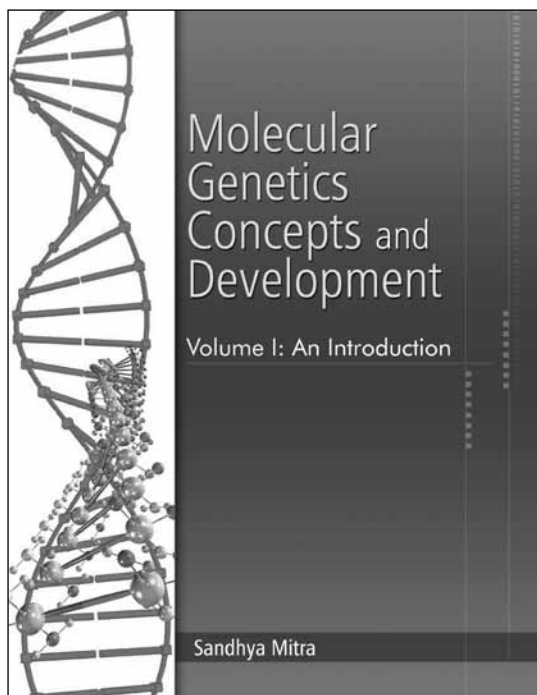
**Rights:** World

#### About the Book

This book traces the growth of gardens, their history and development and provides information on the various principal horticultural practices, taxonomy and its significance, floriculture, bonsai, bottle or dish gardens, floral decorations like Ikebana, and soil-less cultivation. Commercialization of the floriculture sector, a fast-growing industry, has been discussed critically. The special feature of this book is a concise treatment of pests and diseases of a large number of ornamental plants, fruit trees and vegetables and the remedial measures for their control including bio-control agents. Also, elaborate details are provided on prized possessions such as roses and orchids.

#### Contents

Foreword • Preface to the Second Edition • Preface to the First Edition • Soil and Its Preparation • Organic Manures and Substrates • Potting, Repotting and Transplantation • Garden Tools and Implements • Propagation • Phytohormones • Watering and Fertilizer Use • After-care of the Plants • Taxonomy and Its Significance • Flowers as Nature's Gift • Annuals • Perennials • Climbers • Shrubs and Trees • Bulbous Ornamentals • Pests and Diseases • Hedges as a Live Fence • Edging and Carpet Bed Plants • Lawn-Making • Lily Pools and Rockeries • Landscape Gardening • Growth of Gardens: History and Development • Vegetable Crops • Fruit Crops • Mushroom Cultivation • Principles of Culturing Plants Indoors • Terrariums, Bottle and Dish Gardens • Bonsai Culture of Shrubs and Trees • Cacti and Succulents • Indoor Perennials • Hanging Basket Plants • Greenhouse/Indoor Plants and Display • Flower Arrangements • Terrace Gardens • Growing Plants in Soil-less Culture • Appendices • Glossary • Select Bibliography



# Molecular Genetics: Concepts and Development Vol I - An Introductional, Molecular, Developmental



ISBN: TBA

*Author*

MITRA

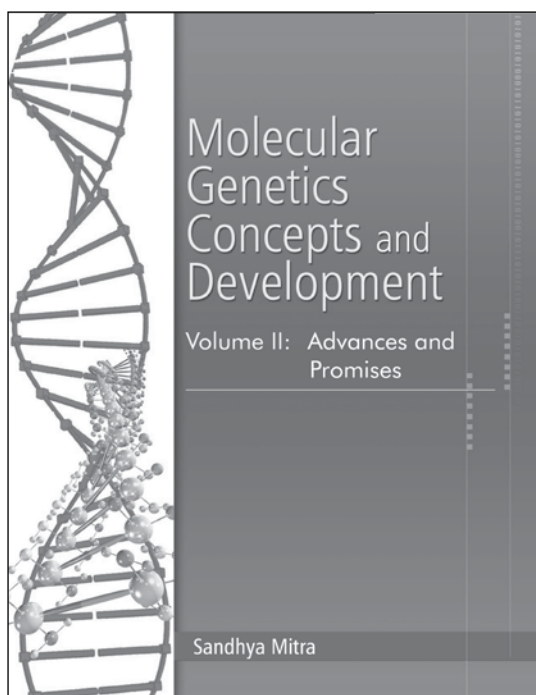
## About the Book

The term 'gene' was coined by Wilhelm Johannsen in 1909, almost fifty years after Gregor Mendel postulated discrete units of genetic material called 'factors'. The central theme of this book is the gene and its involvement in the development of an organism.

Molecular Genetics: Concepts and Development is an essential reading for students and researchers in the field of biology; it provides them with a holistic view of the discipline and of the related inter-disciplinary areas. It's also useful for general readers who are exposed to daily reports about biological and medical discoveries as it helps equip them to make meaningful contributions to public policy that affect human beings and their environment.

## Contents

1. The Concept of the Gene
  2. Birth and Growth of Mendelism
  3. The Nucleic Acids: DNA and RNA
  4. The DNA Paradigm and Molecular Biology
  5. The Gene
  6. Organization of Nucleic Acids in Organisms
  7. Replication of DNA
  8. Mutation: A Permanent Change
  9. Genetic Variation: Recombination
  10. Transmission of Genetic Information
  11. Gene Expression / Genes are Blue Prints for Proteins
  12. Control of Gene Expression
  13. Genes and Development
- Appendix: Maps and Sequences
- References
- Index



## Molecular Genetics: Concepts and Development Vol 2 - Advances and Promises



ISBN: T.B.A

*Author*  
MITRA

### About the Book

The term 'gene' was coined by Wilhelm Johannsen in 1909, almost fifty years after Gregor Mendel postulated discrete units of genetic material called 'factors'. The central theme of this book is the gene and its involvement in the development of an organism.

Molecular Genetics: Concepts and Development is an essential reading for students and researchers in the field of biology; it provides them with a holistic view of the discipline and of the related inter-disciplinary areas. It's also useful for general readers who are exposed to daily reports about biological and medical discoveries as it helps equip them to make meaningful contributions to public policy that affect human beings and their environment.

### Contents

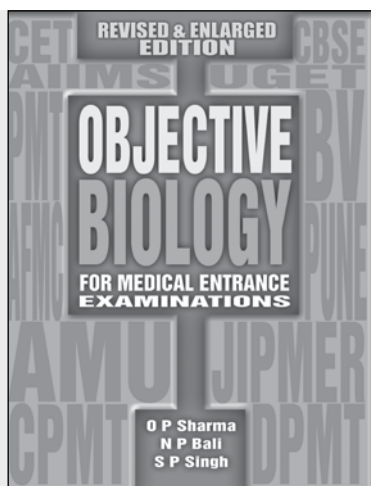
Vol. II – Advances and Promises

1. Genes and Immunity
2. Genes and Cancer
3. Genes, Populations and Evolution
4. Genes and Behaviour
5. Biomolecular Technology

References

Looking Back, Looking Forward

Index



Author: O P Sharma | N P Bali | S P Singh

ISBN: 978-1403-92467-4 | HB

Pages: 1370 | Price: ₹ 595.00

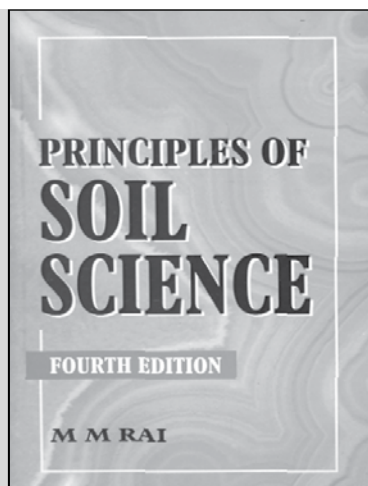
Rights: India

#### About the Book

This is a completely updated comprehensive study kit for students competing for various Medical Entrance Examinations all over India. With the largest compendium of questions, it gives brief discussion of topics in the form of instant notes followed by multiple choice questions. Extensive coverage of Genetics, Cell Biology, Environment and Applications of Biology, which is the most favoured area for question-setters. Special study material for CPMT, Uttar Pradesh; PMT, Uttaranchal; PMT, Rajasthan; PMT, Madhya Pradesh; CET, Karnataka; and UGET Manipal. Special hints for difficult questions besides answers to all questions makes it reader-friendly. Questions on latest examinations are added at the end.

#### Contents

Unit One • The Living World • Unit Two • Unity of Life • Unit Three • Diversity of Life • Unit Four • Organism and Environment • Unit Five • Structure and Function – Plant Life • Unit Six • Structure and Function – Animal Life • Unit Seven • Continuity of Life • Unit Eight • Origin and Evolution of Life • Unit Nine • Application of Biology • Special Section • Appendices • Examination Questions 2003-04



Author: M M Rai

ISBN: 978-0333-93475-3 | HB

Pages: 400 | Price: ₹ 245.00

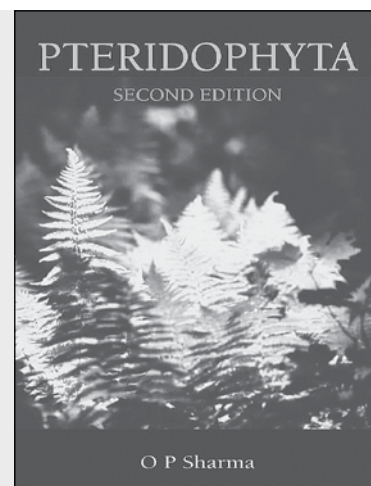
Rights: World

#### About the Book

Brief yet thorough, this book provides an introduction to the concepts and theories of soil science. It explains in the simplest manner, the principles of soil formation, properties of soils, interrelationship between soil water, soil air, soil temperature and plant growth.

#### Contents

Soil Formation • Physical Properties of Soils • Soil Colloids • Soil Organic Matter • Soil Water and Plant Growth • Soil Aeration and Plant Growth • Soil Temperature and Plant Growth • Soil Reaction and Buffering of Soils • Cation and Anion Exchange • Saline and Alkali Soils • Acid Soils • Soil Classification and Soil Survey • Plant Nutrition • Fertilisers in Crop Production • Chemistry of Soil Nitrogen, Phosphorus and Potassium in Soils • Chemistry of Submerged Paddy Soils • Mechanical Analysis of Soils • Chemical Analysis of Soils • Soil Fertility Evaluation • Index



Author: O P Sharma

ISBN: 978-1403-93030-9 | PB

Pages: 400 | Price: ₹ 295.00

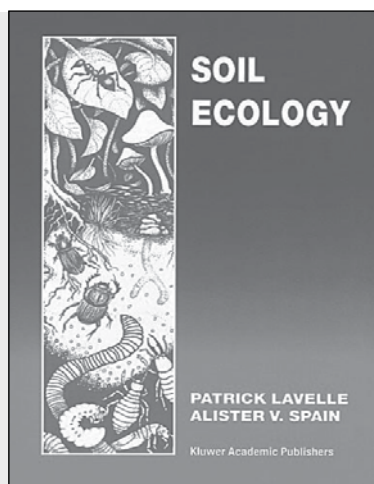
Rights: World

#### About the Book

This thoroughly revised edition, besides retaining almost all topics of the first edition, now also discusses topics like economic importance of pteridophyta, some characteristic features of pteridological divisions, some more Rhynophytes, trends of evolutionary specialization in Psilophytes, a note on Silurian and pre-Silurian plants, affinities of Psilotales, Protolepidodendrales, several Lepidodendrales, Pseudoborniales, Botrychium, Helminthostachys, systematic position of Ophioglossales, fossil Osmundales, Gleicheniaceae, Schizaeaceae and about a dozen more families along with Regnellidium and Pilularia. In addition, a separate chapter on gametophytes in pteridophyta has also been provided. This is the only book by any Indian author, recommended in the list of Suggested Readings of recently introduced UGC Model Curriculum for BSc (Gen.) students.

#### Contents

Preface to the Second Edition • Preface to the First Edition • Introduction • Classification • Psilophytopsida • Psilotopsida • Lycopsida • Sphenopsida • Pteropsida • Cladoxylales and Coenopteridales • Marattiales • Ophioglossales • Osmundales • Filicales • Marsileales • Salviniiales • Gametophyte in Pteridophytes • Apospory, Apogamy and Parthenogenesis • Origin and Evolution of Pteridophytes • Telome Theory and Enation Theory • Polyploidy and Chromosome Number • Stellar System • Heterospory and Seed Habit • Experimental Studies in Pteridophytes • References • Index



Authors: Patrick Lavelle | Alister V Spain

ISBN: 978-8181-28720-5 | PB

Pages: 688 | Price: ₹ 585.00

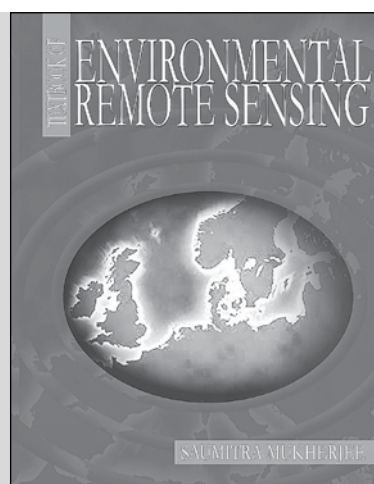
Rights: Indian Subcontinent

#### About the Book

This book first synthesises in a complete, accessible way all the basic knowledge provided by the different disciplines of Soil Science. It then proposes integrative concepts and models that organise this knowledge, taking into account the multiple interactions that exist at a number of different scales among the living and inanimate components. This consideration of basic knowledge in a novel integrative approach is necessary to make significant progress in such critical issues as the improvement of the sustainability of soil and land use, the maintenance or restoration of soil quality, the understanding of the function and value of soil biodiversity, the role of soils in carbon sequestration, and the effects of global changes upon their function.

#### Contents

Acknowledgements • Foreword • Introduction • Chapter I • Internal Environment, Microclimate and Resources • 1. The Soil Environment • Chapter II • Soil Formation • Chapter III • Soil Organisms • Chapter IV • Functioning of the Soil Systems • 1. Decomposition • 2. The Litter System • 3. Rhizosphere • 4. The Drilosphere • 5. The Termitosphere



Authors: Saumitra Mukherjee

ISBN: 978-1403-92235-9 | HB

Pages: 220 | Price: ₹ 295.00

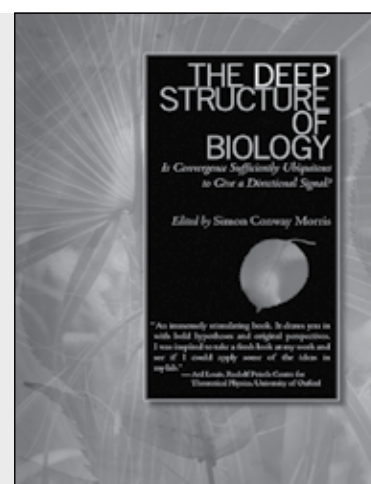
Rights: World

#### About the Book

his book explores the environmental aspects of remote sensing. Satellite remote sensing is an evolving technology with a potential for contributing to studies of human dimensions of global environmental change. The human dimensions of global environment, involve biomass fuel consumption, land-use change and agricultural activities. An attempt has been made to provide a detailed understanding of utility of data in the light of the fundamental principles of Electromagnetic Energy.

#### Contents

Introduction to Remote Sensing • Physical Principles • Spectra of Environmental Components • Earth Resources and Environmental Satellites • Remote Sensing Applications in Atmosphere • Remote Sensing Applications in Oceans • Remote Sensing Applications on Land • Remote Sensing Applications in Geology and Topography • Remote Sensing Applications in Water Resources • Remote Sensing Applications in Cryosphere • Remote Sensing Applications in Defence Studies • Remote Sensing Applications in Private Sectors • References • Glossary • Index



Author: Simon Conway Morris

ISBN: 978-0230-63902-7 | PB

Pages: 256 | Price: ₹ 399.00

Rights: Indian Subcontinent

#### About the Book

In *The Deep Structure of Biology*, twelve renowned scientists, philosophers, and theologians examine the phenomenon of convergence in biology, providing examples found in plants, animals, and microbes, and expand on the topic by discussing metaphysical implications that emerge if it is determined that the processes of evolution are more predictable than customarily thought.

#### Contents

Chance and Necessity in Evolution • Convergent Evolution: A Periodic Table of Life? • Life's Evolutionary History: Is It Determinate or Indeterminate? • Evolution and Convergence: Some Wider Considerations • Aspects of Plant Intelligence: Convergence and Evolution • Convergent Evolution, Serendipity, and Intelligence for the Simple Minded • Canny Corvids and Political Primates: A Case for Convergent Evolution in Intelligence • Social and Cultural Evolution in the Ocean: Convergences and Contrasts with Terrestrial Systems • The Illusion of Purpose in Evolution: A Human Evolutionary Perspective • Purpose in a Darwinian World • Plumbing the Depths: A Recovery of Natural Law and Natural Wisdom in the Context of Debates about Evolutionary Purpose • Purpose in Nature: On the Possibility of a Theology of Evolution • Contributors • Index

## Agricultural Geography of South Asia

*Author:* Mohammad Shafi  
ISBN: 978-0333-93337-4 | HB  
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Rights: World

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*Author:* M S Swaminathan  
ISBN: 978-0333-90966-9 | HB  
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Rights: World

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*Author:* M S Swaminathan  
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*Authors:* Gilbert Etienne | Claude Aubert |  
Jean-Luc Maurer  
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*Authors:* A P Jha  
ISBN: 978-0333-92710-6 | PB  
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*Author:* Sandhya Mitra  
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*Author:* B R Barwale  
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*Author:* Manas K. Mandal |  
K. Ramachandran | A. Gupta  
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Pages: 45 | Price: ₹ 3,000.00

## Information Technology in Agriculture

*Author:* V C Patil | Seishi Ninomiya  
ISBN: 978-1403-93162-7 | HB  
Pages: 862 | Price: ₹ 3,600.00

## Macrobrachium : The Culture of Freshwater Prawns

*Authors:* Michael B New, et all  
ISBN: 978-0230-63564-7 | HB  
Pages: 188 | Price: ₹ 750.00

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*Authors:* Vishnu Swarup  
ISBN: 978-0333-92986-5 | PB  
Pages: 472 | Price: ₹ 270.00

## Plant Genetic Resources : Recognition & Reward : A Dialogue

*Author:* M S Swaminathan  
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Pages: 452 | Price: ₹ 660.00

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*Author:* Rajendra Dobhal | B S Kotlia  
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*Author:* Mark Svendsen | Ashok Gulati  
ISBN: 978-0333-92436-5 | HB  
Pages: 396 | Price: ₹ 675.00

## Strategic Issues in Future Growth of Fertiliser Use in India

*Author:* Guntant M Desai | A Vaidyanathan

ISBN: 978-0333-92438-9 | HB

Pages: 396 | Price: ₹ 465.00

## Man and Environment

*Author:* M C Dash | P C Mishra

ISBN: 978-0333-93669-6 | PB

Pages: 302 | Price: ₹ 165.00

Rights: World

## Textbook of Molecular Biology

*Authors:* K Sivarama Sastry | G Padmanaban | C Subramanyam

ISBN: 978-0333-92933-9 | PB

Pages: 516 | Price: ₹ 295.00

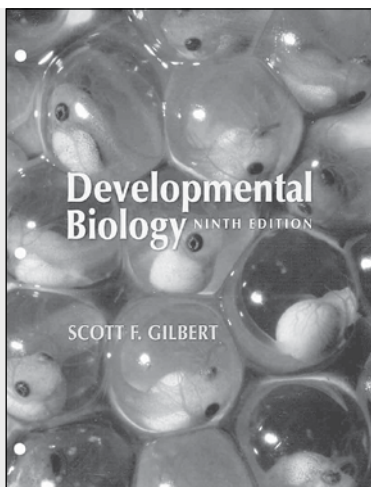
## Wheat Revolution : A Dialogue

*Author:* M S Swaminathan

ISBN: 978-0333-92249-1 | PB

Price: ₹ 440.00

## Titles on Agriculture and Life Sciences from Palgrave and WH Freeman



## Developmental Biology

NINTH EDITION

SCOTT F. GILBERT

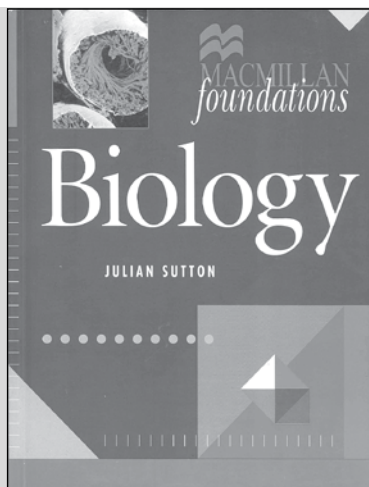
**Author:** Gilbert  
**ISBN:** TBA | PB  
**Price:** £15.50  
**Rights:** Indian Subcontinent

### About the Book

During the past four years, the field of developmental biology has begun a new metamorphosis. The Ninth Edition of Developmental Biology mirrors this shift with a wholly revised text, over 600 new literature citations, and substantial reorganization of content. The introductory section has been streamlined from six chapters to three—one each on developmental anatomy, the mechanisms of gene regulation during differentiation, and cell–cell communication during morphogenesis. Another new feature is the addition of short part openers that address key concerns in developmental biology.

### Contents

1. Developmental Anatomy
2. Developmental Genetics
3. Cell–Cell Communication in Development
4. Fertilization: Beginning a New Organism
5. Early Development in Selected Invertebrates
6. The Genetics of Axis Specification in *Drosophila*
7. Amphibians and Fish: Early Development and Axis Formation
8. Birds and Mammals: Early Development and Axis Formation
9. The Emergence of the Ectoderm: Central Nervous System and Epidermis
10. Neural Crest Cells and Axonal Specificity
11. Paraxial and Intermediate Mesoderm
12. Lateral Plate Mesoderm and the Endoderm
13. Development of the Tetrapod Limb
14. Sex Determination
15. Postembryonic Development: Metamorphosis, Regeneration, and Aging



## Biology

JULIAN SUTTON

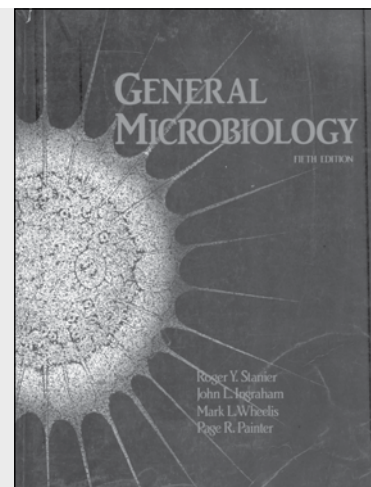
**Author:** Sutton  
**ISBN:** 978-1403-90562-8 | HB  
**Price:** £4.99  
**Rights:** Indian Subcontinent

### About the Book

Dr Sutton's exciting text provides a comprehensive introduction to the core concepts of biology. Starting with an overview of the diversity of life, the author covers a range of subjects from the naming and grouping of organisms through natural selection, molecular and cell biology, genetics, reproduction, physiology, ecology and biotechnology.

### Contents

Preface/Acknowledgements/Introduction/  
 PART 1: THE DIVERSITY OF ORGANISMS/  
 Describing the Diversity of Organisms  
 Explaining The Diversity of Organisms:  
 Natural Selection PART 2: MOLECULES  
 AND CELLS/Molecules and Life/Cell  
 Structure and Function Enzymes/Movement  
 of Molecules/The Gene at Work PART  
 3: ENERGY-Energy in Living Systems/  
 Respiration, Photosynthesis/PART 4: GENES  
 AND LIFECYCLES-Cell Division/Variation  
 and Life Cycles/The Gene as the Unit of  
 Inheritance/Reproduction in Animal Life  
 Cycles/Reproduction in Plant Life Cycles  
 PART 5: THE WORKING ORGANISM/  
 Homeostasis/Cell Communication:  
 Chemicals/Cell Communication: Nerves/  
 Plant Soil and Atmosphere/Transport  
 in Animals/Gas Exchange in Animals/  
 Heterotrophic Nutrition/Excretion and  
 Osmoregulation in Animals Defence/Support  
 and Movement/Development and Growth/  
 PART 6: ORGANISMS IN CONTEXT/  
 Population Ecology/Community Ecology/  
 The Ecology of Ecosystems/Behaviour PART  
 7: APPLIED TOPICS/Disease/Biotechnology.



## GENERAL MICROBIOLOGY

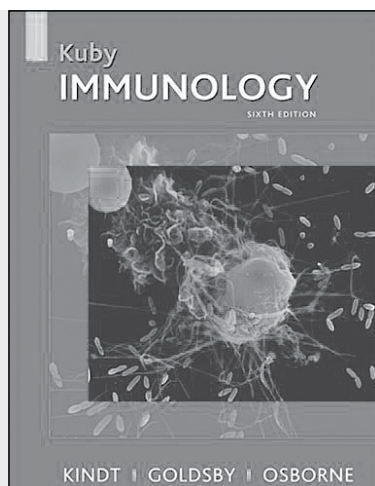
FIFTH EDITION

Roger Y. Stanier  
 John C. Ingraham  
 Mark L. W. Beets  
 Roger R. Painter

**Author:** Stanier  
**ISBN:** 978-0333-76364-3 | HB  
**Price:** £6.50  
**Rights:** Indian Subcontinent

### Contents

The Beginnings of Microbiology/The  
 Methods of Microbiology/The Nature of  
 the Microbial World/Microbial Metabolism  
 Fuelling Reactions/Microbial Metabolism:  
 Biosynthesis Polymerization Assembly/The  
 Relation between Structure and Function  
 in Prokaryotic Cells/Microbial Growth/  
 Effect of the Environment on Microbial  
 Growth/The Viruses/Microbial Genetics/  
 Microbial Genetics: Genetic Exchange  
 and Recombination/Regulation/The  
 Classification and Phylogeny of Bacteria/  
 The Archaeobacteria/The Photosynthetic  
 Eubacteria/The chemoautotrophic and  
 Methophilic Eubacteria/Gram-negative  
 Aerobic Eubacteria/The Gilding Eubacteria/  
 The Enteric Group and Related Eubacteria/  
 Gram-Negative Anaerobic Eubacteria/Gram/  
 Negative Eubacteria Spirochetes Ricktsia  
 and Clamydias/Gram-Positive Eubacteria  
 Unicellular Endospore Formers/Gram/  
 Positive Fermentative Eubacteria/Gram/  
 Positive Eubacteria: The Actinomycetes/The  
 Mollicutes/The Portists/Microorganisms as  
 Geochemical Agents/Symbiosis/Nonspecific  
 Host Defense/The Immune System/  
 Microbial Pathogenesis/Human Pathogens/  
 The Exploitation of Microorganisms/Index.



Authors: Kindt

ISBN: TBA | HB

Price: £15.50

Rights: Indian Subcontinent

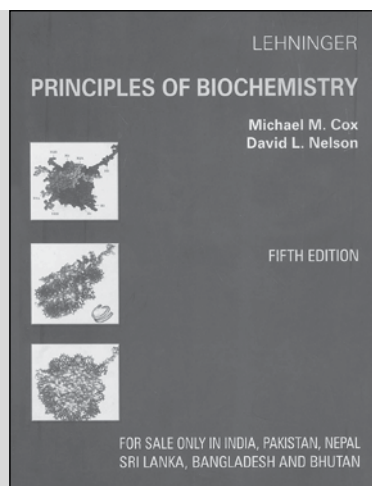
#### About the Book

The only textbook written for undergraduates by teachers of the course, this bestseller presents the most current concepts in an experimental context, conveying the excitement of scientific discovery, and highlighting important advances while providing unsurpassed pedagogical support for the first-time learner. The new edition is thoroughly updated, including most notably the new chapter on innate immunity.

#### Contents

##### Part I Introduction

0. Overview of the Immune System: A Case Study
  1. Innate Immunity
  2. Adaptive Immunity in the Context of Cells and Organs New!
- Part II Generation of B-Cell and T-Cell Receptors
  3. Antigens
  4. Antibodies
  5. Organization and Expression of Immunoglobulin Genes
  6. The Complement System
  7. Antigen-Antibody Reactions and Immunoassays
  8. The Major Histocompatibility Complex and Antigen Presentation
  9. T-Cell Receptor
  10. T-Cell Generation
  11. T-Cell Activation and Differentiation
  12. B-Cell Generation, Activation and Differentiation
- Part III Immune Effector Mechanisms
  13. Cytokines and Chemokines
  14. The Complement System
  15. Cell-Mediated Effector Responses
  16. Leukocyte Activation and Migration
  17. Hypersensitive Reactions



Authors: Nelson

ISBN: 978-0230-22699-9 | PB

Price: £18.99

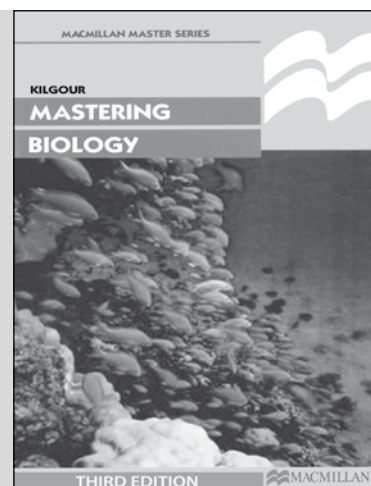
Rights: Indian Subcontinent

#### About the Book

25 years and still going strong! Lehninger Principles of Biochemistry has been a classroom favourite since its first edition. It is the classic introduction to biochemistry that brings clarity and coherence to an often unwieldy discipline, a textbook on the field's classic core, always made fresh by combining the field's definitive advances with an admirable ability to reach students. In addition to its content updates throughout, the fifth edition also provides updated pedagogy that supports lecturers in addressing key challenges in teaching the biochemistry course. The fifth edition maintains its clear narrative style and hallmark organization.

#### Contents

PART ONE: STRUCTURE AND CATALYSIS/Water/Amino Acids/Peptides/and Proteins/The Three-Dimensional Structure of Proteins/Protein Function/Enzymes/Carbohydrates and Glycobiology/Nucleotides and Nucleic Acids/DNA-Based Information Technologies/Lipids/Biological Membranes and Transport/Biosignaling/PART TWO: BIOENERGETICS AND METABOLISM/Principles of Bioenergetics/Glycolysis/Gluconeogenesis/and the Pentose Phosphate Pathway/Principles of Metabolic Regulation: Glucose and Glycogen/The Citric Acid Cycle, Fatty Acid Catabolism/Amino Acid Oxidation and the Production of Urea/Oxidative-Phosphorylation and Photophosphorylation/Carbohydrate Biosynthesis in Plants and Bacteria/Lipid Biosynthesis/Biosynthesis of Amino Acids/Nucleotides/and Related Molecules/Hormonal Regulation and Integration of Mammalian Metabolism/PART THREE: INFORMATION PATHWAYS/Genes and Chromosomes/DNA Metabolism/RNA Metabolism/Protein Metabolism/Regulation of Gene Expression.



Author: Kilgour

ISBN: 978-1403-94133-5 | PB

Price: £4.99

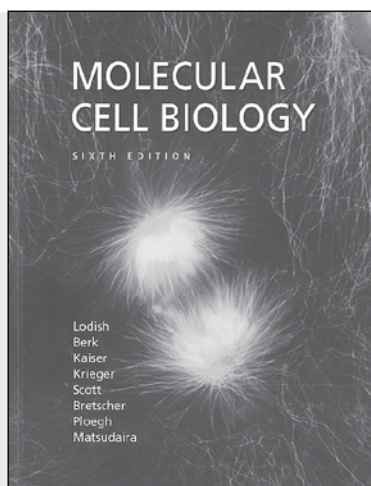
Rights: Indian Subcontinent

#### About the Book

Mastering Biology 3rd edition has been fully revised and updated to provide the information required for today's syllabuses. The book provides an interactive element where the readers can focus on the learning objectives, find them easily in each chapter, check their knowledge and understanding by answering the wide-ranging questions and revise their work using the end of chapter summaries. Mastering Biology can be a useful primer for students beginning A Level Biology after studying an integrated course at GCSE. It will also appeal to further education students.

#### Contents

Introducing Biology and the Scientific Process  
 THEME I: BODY FORM AND STRUCTURE  
 The Body Form and Structure of Living Things  
 THEME II: LIFE SUPPORT PROCESSES  
 Green Plants: The Food Producers  
 Nutrition and the Food Consumers  
 How Living Things Transport Materials  
 Respiration  
 Homeostasis - The Steady State  
 THEME III: LIFE PROTECTION PROCESSES  
 Irritability  
 Support and Movement  
 THEME IV: LIFE CONTINUATION PROCESSES  
 Reproduction  
 Growth and Development  
 Genetics  
 Evolution  
 THEME V: INTERRELATIONSHIPS  
 Natural Ecosystems  
 The Effects of Modern Humans on the Ecosystem  
 Glossary  
 Index of Generic Names  
 General Index



**Author:** Lodish et al

**ISBN:** TBA | PB

**Price:** £15.50

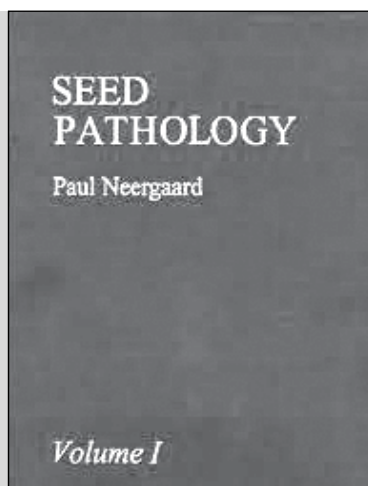
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#### About the Book

With its acclaimed author team, cutting-edge content, emphasis on medical relevance, and coverage based on landmark experiments, Molecular Cell Biology has justly earned an impeccable reputation as an authoritative and exciting text. The new Sixth Edition features two new coauthors, expanded coverage of immunology and development, and new media tools for students and instructors.

#### Contents

1. The Dynamic Cell
2. Chemical Foundations
3. Protein Structure and Function
4. Nucleic Acids, the Genetic Code, and the Synthesis of Macromolecules
5. Biomembranes and the Subcellular Organization of Eukaryotic Cells
6. Manipulating Cells and Viruses in Culture
7. Recombinant DNA and Genomics
8. Genetic Analysis in Cell Biology
9. Molecular Structure of Genes and Chromosomes
10. Regulation of Transcription Initiation
11. RNA Processing, Nuclear Transport, and Post-Transcriptional Control
12. DNA Replication, Repair, and Recombination
13. Regulation of the Eukaryotic Cell Cycle
14. Gene Control in Development
15. Transport across Cell Membranes
16. Cellular Energetics: Glycolysis, Aerobic Oxidation, and Photosynthesis
17. Protein Sorting: Organelle Biogenesis and Protein Secretion
18. Cell Motility and Shape I: Microfilaments
19. Cell Motility and Shape II: Microtubules and Intermediate Filaments
20. Cell-to-Cell Signaling: Hormones and Receptors
21. Nerve Cells
22. Integrating Cells into Tissues
23. Cell Interactions in Development
24. Cancer



**Author:** Neergaard

**ISBN:** 978-1403-99318-2 | HB

**Price:** ₹ 2195.00

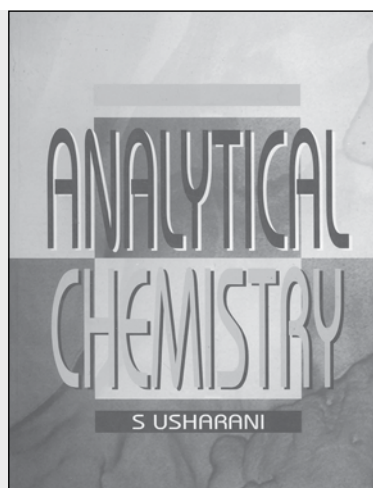
**Rights:** Indian Subcontinent

#### About the Book

This book has a dual purpose. On the one hand it is intended as a text book covering the principles of seed pathology, for use in university courses at different levels. On the other, the intention is to provide a comprehensive reference book on seed-borne diseases, their detection, evaluation and control, for established workers in the following fields: university teaching and research, research at experimental stations; practical seed testing formulation of quarantine regulations; techniques of quarantine inspection development and testing of seed-treatment materials and procedures in laboratory and field; seed certification schemes; seed production and the seed trade.

#### Contents

Volume I & II/Pathogens Diseases Hosts/Mechanisms of Seed Transmission/Principles of Control/Seed health/Testing Methods/Assessment of Seed-Borne Inoculum.



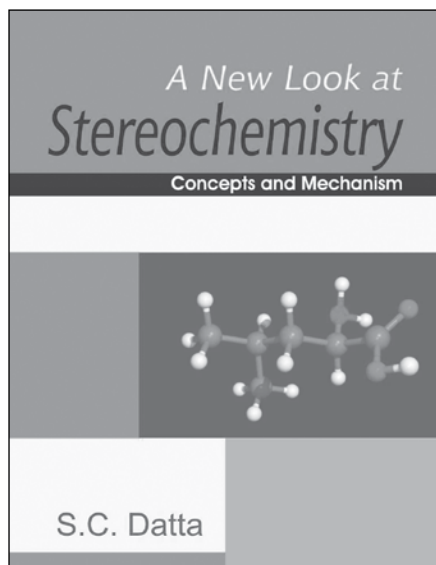
Author: S Usharani  
 ISBN: 978-0333-93389-3 | PB  
 Pages: 416 | Price: ₹ 268.00  
 Rights: World

#### About the Book

This book is useful as a text as well as a reference book for students of Analytical Chemistry in undergraduate and postgraduate courses. This book should prove useful for future coursework including the course dealing with instrumental analysis.

#### Contents

Data Analysis • Titrimetric Analysis • Potentiometric Methods of Analysis • Principles of Gravimetric Analysis • Stoichiometric Calculations • Separation Techniques • Purification Techniques • Thermo Analytical Methods • Polarimetry • Electrogravimetric Methods • Coulometry • Polarography • Spectroscopy – An Introduction • UV-Visible Spectroscopy • Infrared Spectroscopy • Raman Spectroscopy • Molecular Fluorescence Spectroscopy • Nuclear Magnetic Resonance Spectroscopy • Mass Spectroscopy • Flame Spectrometry and Atomic Absorption Spectroscopy • Flame Emission and Atomic Emission Spectroscopy • Glossary • Appendices • Bibliography • Index



## A New Look at Stereochemistry

ISBN: 978-0230-32273-8  
 Pages: 624 | Price: ₹ 425.00 | PB  
 Rights : World

Author  
 S. C. DATTA



S. C. Datta, received his Ph.D. (1970) from Delhi University under (Late) Professor T. R. Seshadri, FRS. In 1972, he was awarded post-doctoral Commonwealth Scholarship, to work with Professor (Sir) Derek Barton, FRS, and received DIC from Imperial College of Science, Technology and Medicine, London.

#### About the Book

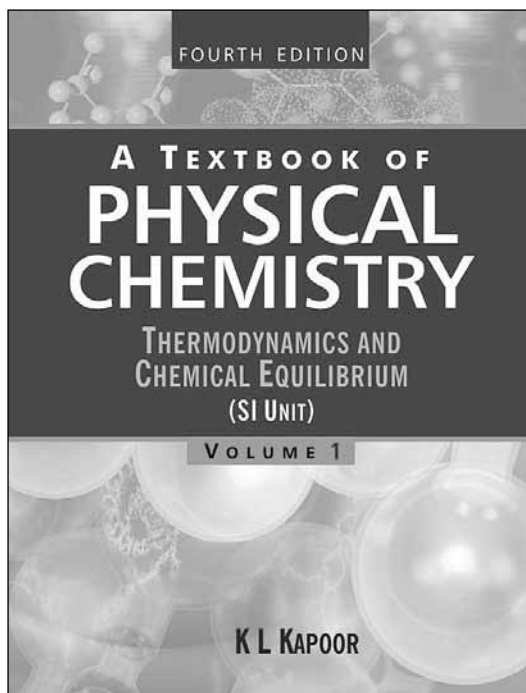
A New Look at Stereochemistry provides a comprehensive view of different topics of stereochemistry including historical development of stereochemistry over a period of over 150 years, architecture of molecules, and basic concepts of stereochemistry.

Optical activity, configuration and conformations have been explained with the help of easily understandable illustrations and clearly defined terms involved in stereochemistry. The role of stereochemistry in chemical reactions of different types and their mechanisms have been explained by considering different kind of examples; many of the chemical reactions worked on by author, have been included. The importance of stereochemistry in biological reactions has been duly explained. Without specific stereochemistry of bio-molecules, biological reactions would not have been possible.

Latest methods involved in separation of racemic mixtures and synthesis of asymmetric molecules have been explained in a manner easily understandable by students at the undergraduate and postgraduate level. Methods, such as, use of NMR in determining stereochemistry of molecules have been given at an elementary level, only to apprise students about its usefulness and methodology.

#### Contents

Emergence and Importance of Stereochemistry • Molecular Architecture and Isomerism • Optical Activity and Optical-Isomerism • Symmetry Properties and Chirality of Molecules • Configurational Isomerism – I • Configurational Isomerism – II • Conformational Isomerism and Stability of Cyclic Structures • Nomenclature and Terms Used in Stereochemistry • Optical Rotatory Dispersion • Organic Reactions: Why and How • Mechanism and Stereochemistry of Substitution Reactions • Mechanism and Stereochemistry of Addition Reactions • Mechanism and Stereochemistry of Elimination Reactions • Mechanism and Stereochemistry of Rearrangement Reactions • Mechanism and Stereochemistry of Redox Reactions • Mechanism and Stereochemistry of Pericyclic Reactions • Asymmetric Synthesis and Related Aspects • NMR and Stereochemical Aspects of Molecules • Bio-molecules, Reactions and Stereochemistry • Glossary • Index



## A Textbook of Physical Chemistry (Vol. I), 4/e

ISBN: 978-0230-33275-1

Pages: 524 | Price: ₹ 325.00 | PB

Rights : World



*Author*

**K L KAPOOR**

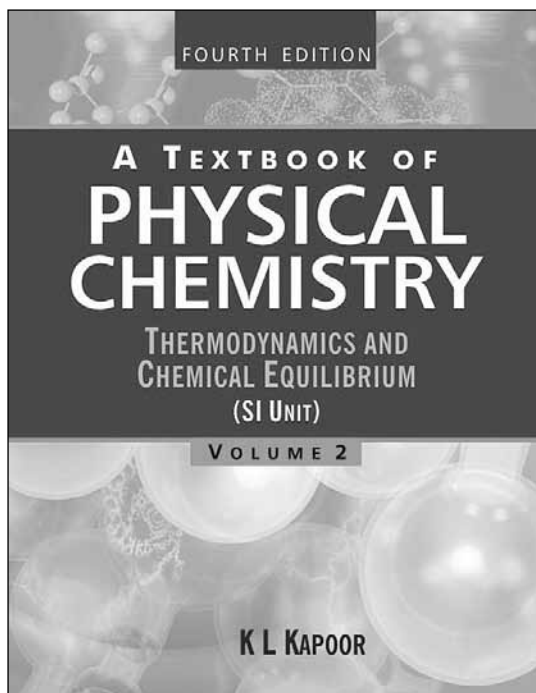
Dr K L Kapoor, formerly associate professor Hindu College, University of Delhi, has an experience of forty years of teaching Physical Chemistry.

### About the Book

A thorough understanding of the principles and basic concepts of physical chemistry is essential for a good grasp of the subject. This book is the sixth of the earlier five volume series, which provides an extensive coverage of the topics discussed focusing on the applications of the principles involved. Each of the earlier five volumes distinguishes itself by projecting the subject through number of illustrative solutions of numerical and typical problems. Each chapter is appended with Revision Problems, Try Yourself Problems and Numerical Problems so as to widen the scope for the students. It, thus, helps them extend their knowledge beyond the book and understand the subject in its totality. To provide quantitative basis for the better understanding of various principles and basic concepts of Physical Chemistry, the present sixth volume on the Computational Aspects in Physical Chemistry is devised, which provides enough applications to meet this requirement.

### Contents

- Preface to the fourth edition vii
- Preface to the first edition ix
- 1. Gaseous state
- 2. Physical properties of liquids
- 3. The solid state
- 4. Ionic equilibria
- 5. Conductance



## A Textbook of Physical Chemistry (Vol. 2), 4/e

ISBN: 978-0230-32267-7

Pages: 342 | Price: ₹ 345.00 | PB

Rights : World

*Author*

**K L KAPOOR**

Dr K L Kapoor, formerly associate professor Hindu College, University of Delhi, has an experience of forty years of teaching Physical Chemistry.

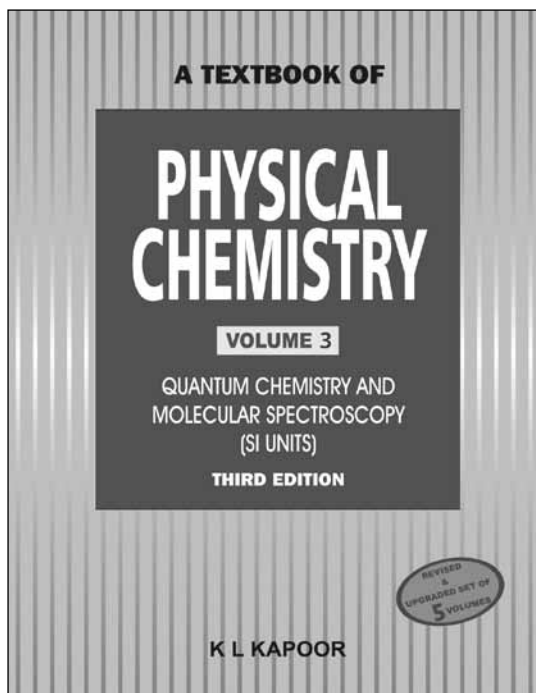


### About the Book

A thorough understanding of the principles and basic concepts of physical chemistry is essential for a good grasp of the subject. This book is the sixth of the earlier five volume series, which provides an extensive coverage of the topics discussed focusing on the applications of the principles involved. Each of the earlier five volumes distinguishes itself by projecting the subject through number of illustrative solutions of numerical and typical problems. Each chapter is appended with Revision Problems, Try Yourself Problems and Numerical Problems so as to widen the scope for the students. It, thus, helps them extend their knowledge beyond the book and understand the subject in its totality. To provide quantitative basis for the better understanding of various principles and basic concepts of Physical Chemistry, the present sixth volume on the Computational Aspects in Physical Chemistry is devised, which provides enough applications to meet this requirement.

### Contents

- Preface to the Fourth Edition vii
- Preface to the First Edition ix
- 1. Introduction to thermodynamics
- 2. Zeroth and first laws of thermodynamics
- 3. Thermochemistry
- 4. Second law of thermodynamics
- 5. Equilibrium criteria,  $a$  and  $g$  functions
- 6. Systems of variable composition
- 7. Thermodynamics of chemical reactions



## A Textbook of Physical Chemistry (Vol. 3), 3/e

ISBN: 978-9350-59022-5

Pages: 592 | Price: ₹ 375.00 | PB

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*Author*

K L KAPOOR

Dr K L Kapoor, formerly associate professor Hindu College, University of Delhi, has an experience of forty years of teaching Physical Chemistry.

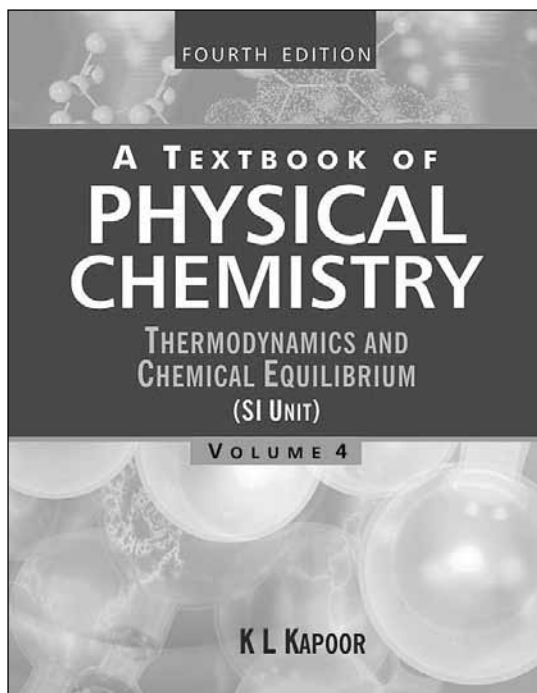
### About the Book

A thorough understanding of the principles and basic concepts of physical chemistry is essential for a good grasp of the subject. This book is the third of the earlier five volume series, which provides an extensive coverage of the topics discussed focusing on the applications of the principles involved. Each of the six volumes distinguishes itself by projecting the subject through number of illustrative solutions of numerical and typical problems. Each chapter is appended with Revision Problems, Try Yourself Problems and Numerical Problems which help students to extend their knowledge beyond the book and to give them a good understanding of the subject.

### Contents

The six volumes are organised as follows:

- Volume 1 States of Matter and Ions in Solution (SI Units)
- Volume 2 Thermodynamics and Chemical Equilibrium (SI Units)
- Volume 3 Applications of Thermodynamics (SI Units)
- Volume 4 Quantum Chemistry and Molecular Spectroscopy (SI Units)
- Volume 5 Dynamics of Chemical Reactions, Statistical Thermodynamics and Macromolecules (SI Units)
- Volume 6 Computational Aspects in Physical Chemistry (SI Units)



## A Textbook of Physical Chemistry (Vol. 4), 4/e

ISBN: 978-0230-32332-2

Pages: 722 | Price: ₹ 385.00 | PB

Rights : World

*Author*

**K L KAPOOR**

Dr K L Kapoor, formerly associate professor Hindu College, University of Delhi, has an experience of forty years of teaching Physical Chemistry.



### About the Book

A thorough understanding of the principles and basic concepts of Physical Chemistry is essential for a good grasp of the subject. This book is fourth of the six volume series, which provides an extensive coverage of the topics discussed, focusing on the applications of the principles involved.

Each of the six volumes distinguishes itself by projecting the subject through a number of illustrative solutions of numerical and typical problems. Every chapter is appended with Revision Problems, Try Yourself Problems and Numerical Problems so as to widen the scope for the students. It, thus, helps them extend their knowledge beyond the book and understand the subject in its totality.

### Contents

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Volume 2: Thermodynamics and Chemical Equilibrium (SI Units)

Volume 3: Applications of Thermodynamics (SI Units)

Volume 4: Quantum Chemistry and Molecular Spectroscopy (SI Units)

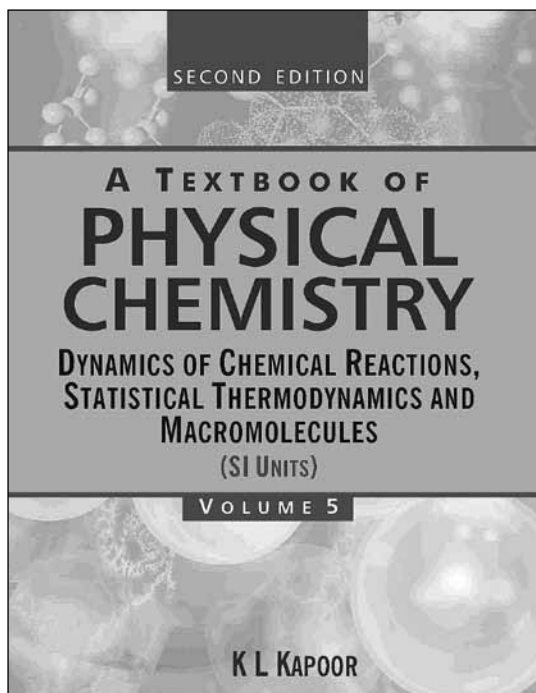
Volume 5: Dynamics of Chemical Reactions, Statistical Thermodynamics and Macromolecules (SI Units)

Volume 6: Computational Aspects in Physical Chemistry

This edition has been designed to incorporate the latest recommendations in the field of Physical Chemistry. New and updated additions to it are as follows:

The book has been restructured to include the application of principles and equations as solved numericals and problems. The entire subject matter has been presented with proper sub-headings, so as to facilitate the reader to understand the text in a more systematic manner. SI units and IUPAC recommendations have been used throughout. Appropriate supplementary materials have been annexed at the end of each chapter, without disturbing its format. These include, solutions to the Schrödinger equation for a harmonic oscillator by the power series method, operators for the components of angular momentum, commutator of angular momentum operators, transformation of the Laplacian operator from Cartesian coordinates to spherical polar coordinates, the splitting of the Schrödinger equation of the hydrogen atom, and the atomic and molecular term symbols.

The present text, Volume IV, describes Wave Mechanics, Energy Quantization and Atomic Structure, Theories of Covalent Bond, Electrical and Magnetic Properties and Molecular Spectroscopy.



## A Textbook of Physical Chemistry (Vol. 5), 2/e

ISBN: 978-0230-32333-9

Pages: 444 | Price: ₹ 315.00 | PB

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*Author*

K L KAPOOR

Dr K L Kapoor, formerly associate professor Hindu College, University of Delhi, has an experience of forty years of teaching Physical Chemistry.



### About the Book

A thorough understanding of the principles and basic concepts of Physical Chemistry is essential for a good grasp of the subject. This book is fifth of the six volume series, which provides an extensive coverage of the topics discussed, focusing on the applications of the principles involved.

Each of the six volumes distinguishes itself by projecting the subject through a number of illustrative solutions of numerical and typical problems. Every chapter is appended with Revision Problems, Try Yourself Problems and Numerical Problems so as to widen the scope for the students. It, thus, helps them extend their knowledge beyond the book and understand the subject in its totality.

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Volume 2: Thermodynamics and Chemical Equilibrium (SI Units)

Volume 3: Applications of Thermodynamics (SI Units)

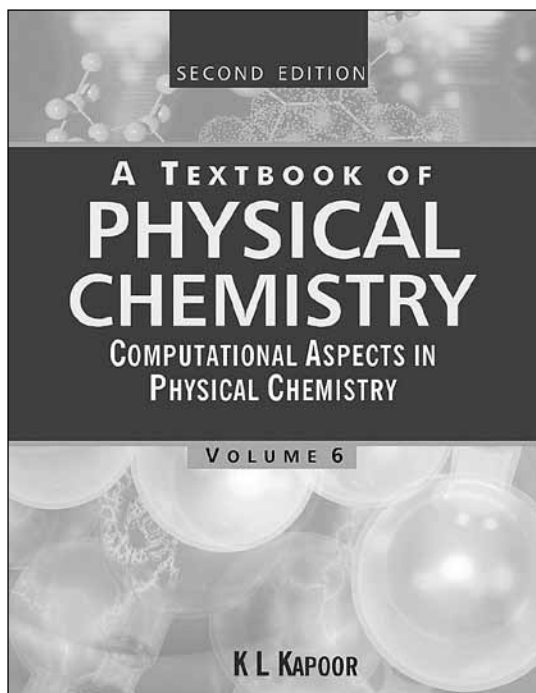
Volume 4: Quantum Chemistry and Molecular Spectroscopy (SI Units)

Volume 5: Dynamics of Chemical Reactions, Statistical Thermodynamics and Macromolecules (SI Units)

Volume 6: Computational Aspects in Physical Chemistry

Without disturbing the main format of chapters, this new edition of Volume 5 includes the following features:

The book incorporates the IUPAC recommendations in the field of Physical Chemistry. The entire subject matter has been presented with proper sub-headings, to facilitate readers to understand the text in a more systematic manner. SI units are used throughout. In the topic on Chemical Kinetics, some aspects of kinetics of step-growth polymerization have been included. Two new topics on Statistical Thermodynamics and Macromolecules have been added. Volume 5, describes dynamics of Chemical Reactions, Statistical Thermodynamics and Macromolecules in five chapters, viz., Adsorption, Chemical Kinetics, Photochemistry, Statistical Thermodynamics and Macromolecules.



## A Textbook of Physical Chemistry (Vol. 6), 2/e

ISBN: 978-0230-32332-2

Pages: 342 | Price: ₹ 265.00 | PB

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*Author*

**K L KAPOOR**

Dr K L Kapoor, formerly associate professor Hindu College, University of Delhi, has an experience of forty years of teaching Physical Chemistry.



### About the Book

A thorough understanding of the principles and basic concepts of physical chemistry is essential for a good grasp of the subject. This book is the sixth of the earlier six volume series, which provides an extensive coverage of the topics discussed focusing on the applications of the principles involved. Each of the earlier five volumes distinguishes itself by projecting the subject through number of illustrative solutions of numerical and typical problems. Each chapter is appended with Revision Problems, Try Yourself Problems and Numerical Problems so as to widen the scope for the students. Volume 6 Describes Computational Aspects in Physical Chemistry in three chapters, viz, Synopsis of Commonly used Statements in BASIC Language, List of Programs, and Projects. The content of the second edition of book is enlarged and includes more applications of numerical methods to the various concepts of physical chemistry, viz., roots of equation  $f(x) = 0$ , interpolation formulae, numerical differentiation, double integration, eigenvalue problem, and first-and second-order differential equations. Beginning with a brief synopsis of instructions/statements available in BASIC language, the book discusses a few preliminary illustrations highlighting the use of these statements. These are followed by the illustrative programs based on the principles and basic concepts of physical chemistry. Finally, the more involved applications are described as the recommended projects.

### Contents

The six volumes are organised as follows:

Volume 1 States of Matter and Ions in Solution

Volume 2 Thermodynamics and Chemical Equilibrium

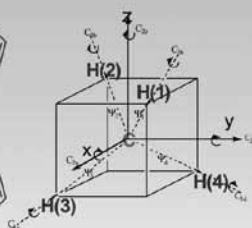
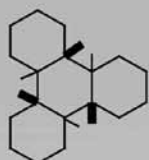
Volume 3 Applications of Thermodynamics

Volume 4 Quantum Chemistry and Molecular Spectroscopy

Volume 5 Dynamics of Chemical Reactions, Statistical Thermodynamics and Macromolecules

Volume 6 Describes Computational Aspects in Physical Chemistry

## CHEMICAL APPLICATIONS OF MOLECULAR SYMMETRY AND GROUP THEORY



# Chemical Applications of Molecular Symmetry and Group Theory



ISBN: 978-9350-59304-2

Pages: 702 | Price: ₹ 645.00 | PB

Rights : World

*Author*

Professor B. S. Garg

Professor B. S. Garg had been the faculty at the Department of Chemistry, University of Delhi and has taught molecular symmetry and group theory for nearly 40 years to the UG, PG, M.Phil., Ph.D. students and teachers in various refresher courses. The author has also served the University of Delhi as OSD Examination, Dean of Science and Chairman of the Department of Chemistry.

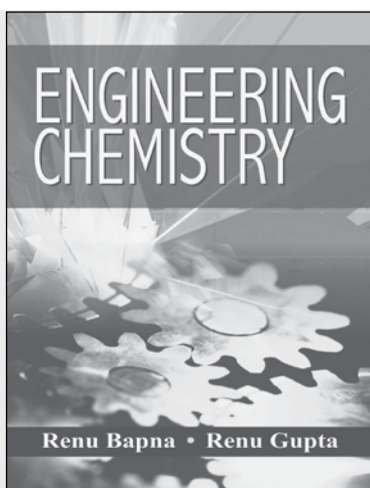
He had been awarded the Fulbright Travel Grant (USA) for advanced studies at the University of Texas at El Paso and has contributed much to the development of ideas of Green Chemistry in India.

### About the Book

The strength of Group Theory resides in the fact that it transforms the effects of numerous complex symmetry operations into very simple linear algebra. How are these properties applied to symmetry operations of a molecular point group? How are the group theoretical arguments and representations connected to each other to understand the role of molecular symmetry in solving chemical problems? The book aptly answers these questions.

### Contents

1. The text has been presented in a simple and lucid manner.
2. Construction of the correlation diagrams involving the symmetry of the orbitals of reactants and products have been described in detail.
3. Point groups/double groups character tables, direct product tables, and correlation tables form a part of the appendices at the end of the book.
4. At the end of each chapter, exercises related to the content of the chapter have been provided for practice.
5. Answers to selected exercises are given after the appendices section of the book.



Author: Dr Renu Bapna | Dr. Renu Gupta

ISBN: 978-0230-33076-4 | PB

Pages: 448 | Price: ₹ 285.00

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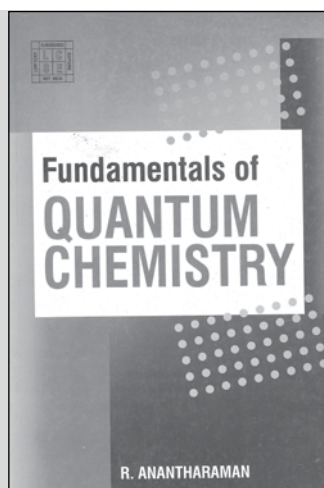
#### About the Book

Engineering Chemistry is written in a simple language with logical flow of topics which gives the students clear, comprehensive, concise and up-to-date information of the subject and serves as an interface between theoretical principles of basic chemistry and their practical applications in engineering. The book, comprising 14 chapters, covers the fundamentals of engineering chemistry including fuel and combustion, electrochemistry, fuel cells and solar energy to corrosion and control, liquid crystals and high polymers.

The emphasis is on relevant concepts. Theories and principles have been explained with suitable illustrations, adequate examples, and neat and labeled diagrams. The review questions at the end of the chapter provides a thorough revision of concepts learnt while solved numericals, wherever required, have been added for better understanding of applications of the subject.

#### Contents

Preface • Acknowledgements • Fuel and Combustion • Solar Energy • Electrochemistry • Conversion and Storage of Electrochemical Energy: Battery Technology • Fuel Cells • Corrosion and Its Control • Metal Finishing and Electroplating • Electroless Plating • Liquid Crystals • Instrumental Methods of Analysis • High Polymers • Water • Refractories • Cement • Index



Authors: R Anantharaman

ISBN: 978-0333-93336-7 | PB

Pages: 824 | Price: ₹ 166.00

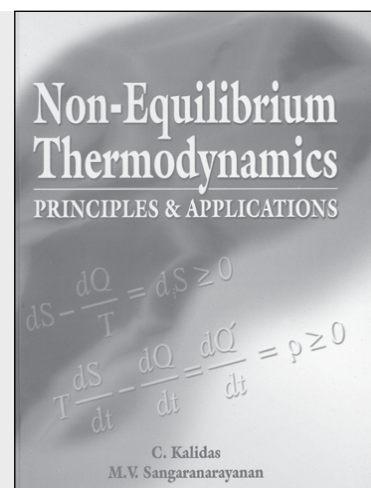
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#### About the Book

This edition equips the reader with a complete understanding of fundamental topics like the concepts of operators and oscillatory and wave motions, gamma functions and cyclic determinants, whose knowledge is indispensable for studying other advanced treatises on Quantum Chemistry. This book will be of use to students and teachers of Quantum Chemistry.

#### Contents

Principles of Classical Mechanics • Experimental Foundations of the Old Quantum Theory • The Principles of Quantum Mechanics • Angular Momentum • The Differential Equations of Quantum Mechanics • Quantum Mechanics of Some Simple Systems • The Hydrogen Atom • Approximate Methods • Time-Dependent Perturbation Theory • Polyelectronic Atoms • Molecular Orbital Theory of Diatomic Molecules • Valence-Bond Theory of Simple Molecules: Localized Bonds • Valence-Bond Theory of Complex Molecules: Localized and Non-Localized Bonds • Molecular Orbital Theory for II-Electron Systems • Appendices • Bibliography • Subject Index



Authors: C Kalidas | M V Sangaranarayanan

ISBN: 978-0333-93686-3 | HB

Pages: 160 | Price: ₹ 220.00

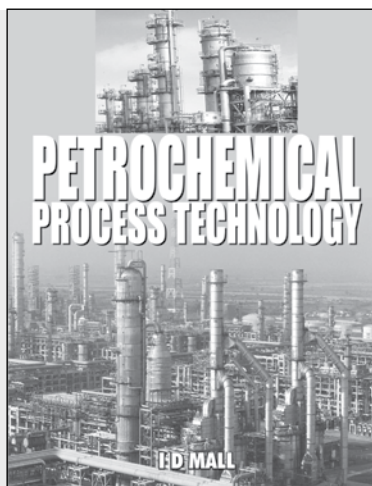
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#### About the Book

The present work is meant essentially for the postgraduate students of chemistry. A major portion of the book forms part of the curriculum of students of chemistry at the Indian Institute of Technology, Chennai. Additional material has also been added in order to make the book more comprehensive and also to provide a choice of topics to the teachers, depending upon the specific needs of the students.

#### Contents

Introduction to Non-Equilibrium Thermodynamics • Basic Concepts of Entropy Production and Uncompensated Heat and Their Relation to Various Thermodynamic Functions • Entropy Production in Closed and Open Systems, Entropy Balance in Continuous and Discontinuous Systems • Onsager's Theory and Application to Chemical Reactions: Coupled and Uncoupled Reactions and Relaxation Processes • Transport Phenomena Across Membranes and Under Temperature Gradients – Some Examples Towards Verification of Onsager's Reciprocal Relations • Onsager's Formalism of Non-Equilibrium Thermodynamics for Multi-Component Diffusion • Onsager's Formalism for Transport Phenomena in Electrochemical Systems • Minimum Entropy Production and Non-Linear Non-Equilibrium Thermodynamics • Index



Author: I D Mall

ISBN: 978-1403-93197-9 | PB

Pages: 576 | Price: ₹ 535.00

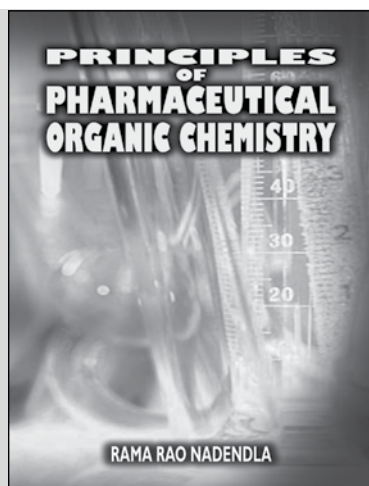
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#### About the Book

This book provides a systematic and comprehensive introduction to various aspects of production of petrochemicals. Beginning with an introduction to petrochemicals, the book discusses the raw materials scenario with special reference to India. While discussing the profile of Indian petroleum and petrochemicals industries, the book emphasises on recent advances in the production of basic raw materials, namely, olefins, aromatics, intermediates and finished products like polymers, elastomers, polyurethane, synthetic fibres, and so on. Issues of environmental management, corrosion and selection of materials of construction in the petrochemical industries have also been dealt with.

#### Contents

• Foreword • Preface • Acknowledgements  
 • Introduction • Profile of Indian Petroleum and Petrochemical Industry • Petroleum Refining • 4. Olefins Production • Processing of Olefinic C4 and C5 Cut From Steam Cracking and Fluid Catalytic Cracking  
 • Aromatic Production • Methane and Synthesis Gas Derivatives • Ethylene and Ethylene Derivatives • Propylene and Propylene Derivatives • C4 and C5 Compounds • Aromatics-BTX Derivatives  
 • Polymers, Elastomers, Polyurethanes  
 • Synthetic Fibres • Environmental Management in Petrochemical Industries • Corrosion and Material of Construction In Petroleum and Petrochemical Industries • Index



Author: Rama Rao Nadendla

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Pages: 436 | Price: ₹ 335.00

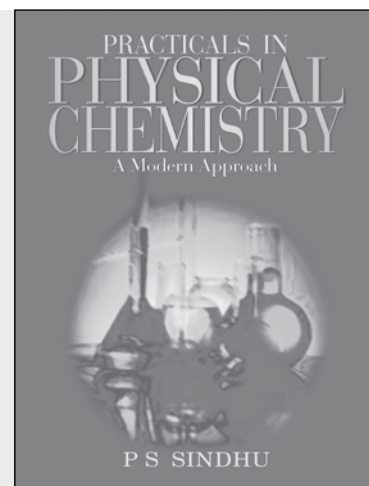
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#### About the Book

This book delves into all major concepts in organic pharmaceuticals, includes all the changes, modifications and revisions made to the syllabi of various Indian universities catering to needs of undergraduate students of pharmacy and science.

#### Contents

Atomic Structure • Chemical Bonding and Hybridisation • Purification and Characterisation of Organic Compounds • Electron Displacement Effects • Reactive Intermediates • Classification and Nomenclature of Organic Compounds • Principles of Isomerism • Chemistry of Alkanes • Chemistry of Alkenes • Chemistry of Alkynes • Chemistry of Dienes • Chemistry of Cycloalkanes • Chemistry of Alkyl halides • Alcohols • Chemistry of Ethers and Epoxides • Chemistry of Benzene and Aromaticity • Chemistry of Aryl Halides • Aromatic Sulphonic Acids • Chemistry of Aldehydes and Ketones • Carboxylic Acids • Chemistry of Carboxylic Acid Derivatives • Chemistry of  $\alpha$ ,  $\beta$ -Unsaturated Carbonyl Compounds • Chemistry of Phenols • Chemistry of Amines • Aromatic Heterocyclic Compounds • Carbohydrates • Phase-Transfer Catalysis • Suggested Readings • Index



Author: Rama Rao Nadendla

ISBN: 978-1403-92916-7 | PB

Pages: 436 | Price: ₹ 335.00

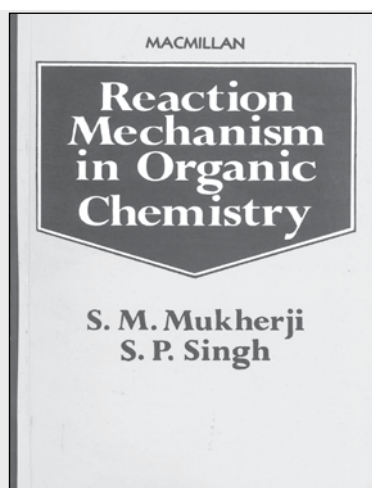
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Author: S M Mukherji | S P Singh

ISBN: 978-0333-90461-9 | HB

Pages: 568 | Price: ₹ 375.00

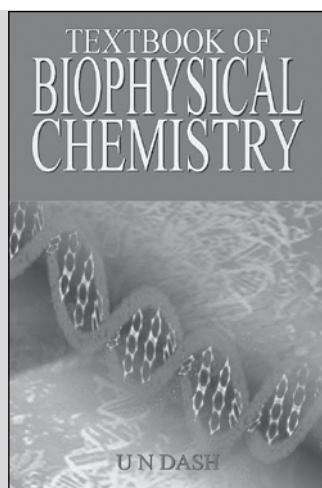
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#### About the Book

Designed for the senior undergraduates, this book gives entries of most of the important organic reactions, together with a critical examination of the evidence leading to the accepted mechanisms. It attempts to bridge the gap between an elementary treatment and the more masterly treatises on the subject. To test one's comprehension 400 problems with solutions have been provided.

#### Contents

The Chemical Bond • Organic Reactions, Reagents and Reaction Intermediates • General Principles and Methods of Determination of Reaction Mechanism • Aliphatic Nucleophilic Substitution • Addition to Carbon-Carbon Multiple Bond • Elimination Reactions • Reactions of the Carbonyl Group • Carbanions and Tautomerism • Aromatic Substitution • Molecular Rearrangements Involving Electron-Deficient Species • Further Molecular Rearrangements • Free Radicals • Organic Photochemistry • Pericyclic Reactions • Methods of Reduction • Methods of Oxidation • Appendices • Index



Authors: U N Dash

ISBN: 978-1403-92943-3 | PB

Pages: 288 | Price: ₹ 220.00

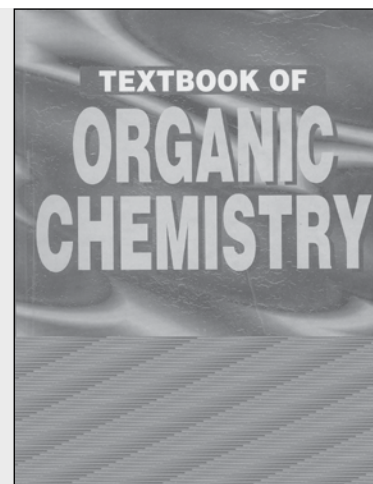
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#### About the Book

Textbook of Biophysical Chemistry is written primarily for MSc students of all Indian universities, and is structured according to the syllabi recommended by the University Grants Commission. In this book, perhaps for the first time, both the subjects of biochemistry and macro-molecules have been dealt with comprehensively. It focuses on determination and analysis of macromolecular structures and the applications of quantitative methods to analyse biological systems. The book basically deals with interactions that are physico-chemical in nature and analyses how these forces are utilised in analytical techniques. The first four chapters cover the topics under biochemistry while the remaining five chapters describe the physical and chemical properties of macromolecules and their analyses. The unique feature of the book is the inclusion of basic topics on biological cell organelles and macro molecules in living systems, which facilitates in-depth understanding of basic structure of the living system and complex interactions therein.

#### Contents

Preface • Biological Cell and its Organisation • Cell Membrane and Transport of Ions • The Macromolecules in Living System • Bioenergetics • Statistical Mechanics in • Biopolymers Interactions • Thermodynamics of Biopolymer Solutions • Biopolymers and their Molecular Weights • Diffraction Methods • Appendix • Glossary • Suggested Readings • Index



Authors: C Kalidas | M V Sangaranarayanan

ISBN: 978-0333-93240-7 | HB

Pages: 160 | Price: ₹ 220.00

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#### About the Book

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Pages: 268 | Price: ₹ 600.00

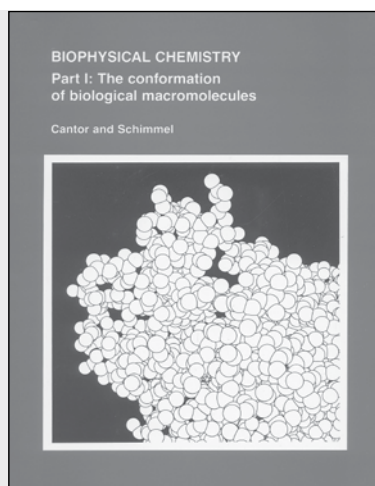
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## Titles on Chemistry from Palgrave



BIOPHYSICAL CHEMISTRY  
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of biological macromolecules

Cantor and Schimmel

Authors: Cantor

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#### About the Book

BIOPHYSICAL CHEMISTRY Part I: The conformation of biological macromolecules Part II: Techniques for the study of biological structure and function (1980) Part III: The behavior of biological macromolecules (Summer 1980)

CHARLES R. CANTOR. COLUMBIA UNIVERSITY PAUL R. SCHIMMEL. MASSACHUSETTS INSTITUTE OF TECHNOLOGY

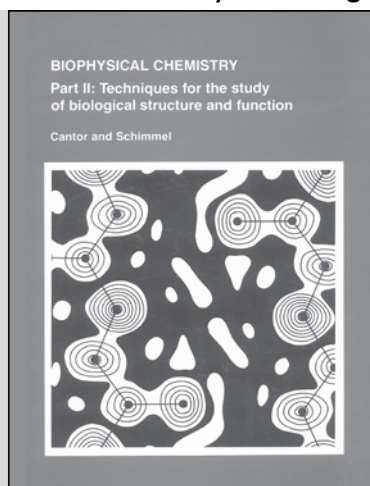
The three beautifully illustrated volumes of Biophysical Chemistry offer a comprehensive, modern treatment of the physical properties of biological macromolecules and the physical techniques used to study them

Part I deals with the structure of biological macromolecules and the forces that determine structure. Part II discusses the techniques used in the study of biological structure and function, treating a few in considerable detail rather than attempting to describe every technique known. Part III demonstrates how techniques and principles can be used together in the study of the equilibrium and dynamic properties of biological macromolecules.

Biophysical Chemistry is appropriate for a broad spectrum of advanced undergraduate and graduate courses and is also a comprehensive resource for researchers.

#### Contents

- PART I THE CONFORMATION OF BIOLOGICAL MACROMOLECULES
- Chapter 1 An Introduction to the Strategy and tactics of Biophysical Chemistry
- Chapter 2 Structure of Proteins
- Chapter 3 Structure of Nucleic Acids
- Chapter 4 Other Biological Polymers
- Chapter 5 Conformational Structure
- Chapter 6 Conformational Analysis and Forces That Determine Nucleic Acid Structure



BIOPHYSICAL CHEMISTRY  
Part II: Techniques for the study  
of biological structure and function

Cantor and Schimmel

Authors: Cantor

ISBN: 978-1403-94545-7 | PB

Price: £19.99

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#### About the Book

BIOPHYSICAL CHEMISTRY Part I: The conformation of biological macromolecules Part II: Techniques for the study of biological structure and function (1980) Part III: The behavior of biological macromolecules (Summer 1980)

CHARLES R. CANTOR. COLUMBIA UNIVERSITY PAUL R. SCHIMMEL. MASSACHUSETTS INSTITUTE OF TECHNOLOGY

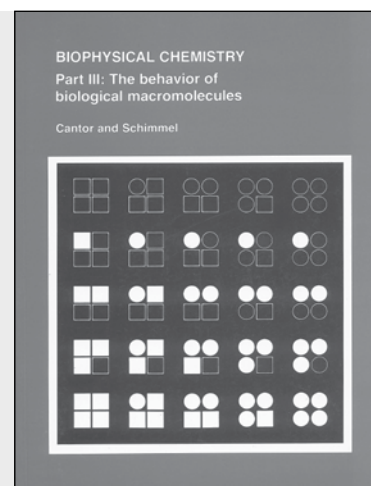
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- PART II TECHNIQUES FOR THE STUDY OF BIOLOGICAL STRUCTURE AND FUNCTION
- Chapter 7 Absorption Spectroscopy
- Chapter 8 Other Optical Techniques
- Chapter 9 Introduction to Magnetic Resonance
- Chapter 10 Size and Shape of Macromolecules
- Chapter 11 Ultracentrifugation
- Chapter 12 Other Hydrodynamic Techniques
- Chapter 13 X-Ray Crystallography
- Chapter 14 Other scattering and Diffraction Techniques



BIOPHYSICAL CHEMISTRY  
Part III: The behavior of  
biological macromolecules

Cantor and Schimmel

Author: Cantor

ISBN: 978-1403-94546-4 | PB

Price: £19.99

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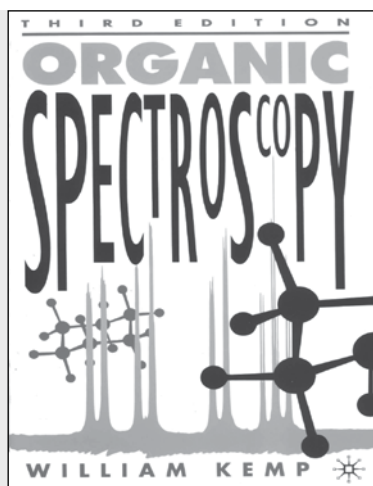
CHARLES R. CANTOR. COLUMBIA UNIVERSITY PAUL R. SCHIMMEL. MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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- PART III THE BEHAVIOUR OF BIOLOGICAL MACROMOLECULES
- Chapter 15 Ligand Interaction at Equilibrium
- Chapter 16 Kinetics of Ligand Interaction
- Chapter 17 Regulation of Biological Activity
- Chapter 18 Configurational Statistics of Polymer Chains
- Chapter 19 Elementary Polymer-Chain Hydrodynamics and Chain Dimensions
- Chapter 20 Conformational Equilibria of Polypeptides and Proteins: The Helix-Coil Transition
- Chapter 22 Nucleic Acid Structural Transitions
- Chapter 23 Statistical Mechanics and Kinetics of Nucleic Acid Interactions
- Chapter 24 Tertiary Structure of Nucleic Acids
- Chapter 25 Introduction of Membrane equilibria and to Bilayers



Author: Kemp

ISBN: 978-14039-0684-7 | HB

Price: £4.99

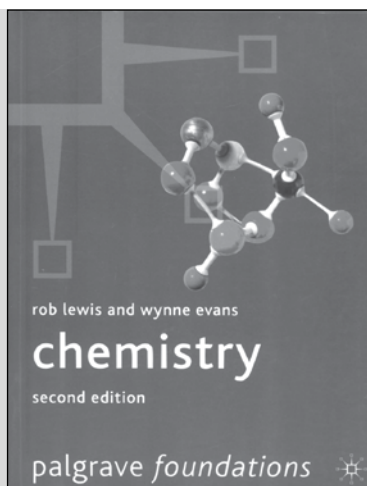
Rights: Indian Subcontinent

#### About the Book

This latest edition of the highly successful text *Organic Spectroscopy* continues to keep both student and researcher informed of the most recent developments in the various fields of spectroscopy. New features of the third edition include: \* 100 new student exercises, worked examples and problem exercises \* An expanded chapter on nuclear magnetic resonance \* Details of the latest developments in Fourier transform instrumentation.

#### Contents

Preface/Energy and the Electromagnetic Spectrum/ Infrared Spectroscopy/Nuclear Magnetic Resonance Spectroscopy/ Ultraviolet and Visible Spectroscopy/Mass Spectrometry/Spectroscopy Problems/ Appendices/Index.



Author: Lewis

ISBN: 978-1403-90563-5 | HB

Price: £4.99

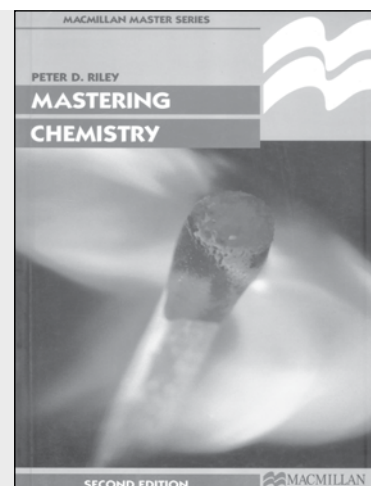
Rights: Indian Subcontinent

#### About the Book

This student-friendly text has been written to provide a course in chemical literacy. Providing complete yet concise coverage of core topics, it starts students from scratch and assumes only a minimal experience of mathematics and science. The second edition has been fully updated.

#### Contents

Contents: Numbers, Units and Measurement/Elements, Compounds and Reactions/Inside the Atom/Bonding between Atoms/More about Bonding / Reactions of Ions in Solution - Oxidation and Reduction/The Mole/Calculating Concentrations/Gases, Liquids and Solids/Solutions and Solubility/Chemical Families/Energy Changes in Chemical Reactions/The Speed of Chemical Reactions/Dynamic Chemical Equilibria/Acid-Base Equilibria/Organic Chemistry: Hydrocarbons/Common Classes of Organic Compounds/Separating Mixtures /Light and Spectroscopy/Nuclear and Radiochemistry/Environmental Chemistry



Author: Riley

ISBN: 978-1403-94422-1 | HB

Price: £4.99

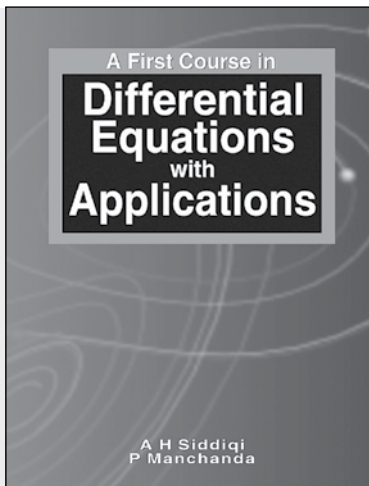
Rights: Indian Subcontinent

#### About the Book

This text has been completely rewritten to embrace the new syllabus changes which have taken place since the first edition was published. The book is presented through a progression of topics, beginning with simple concepts and ideas, e.g. the nature of matter and its organization in the structure of the Earth and its atmosphere. The topics then move on to more complex concepts such as atomic structure and the nature of chemical reactions, their uses in industry and the implications to the environment. Each chapter begins with a list of objectives to help the reader focus. Questions are asked throughout the book to help develop skills and each chapter ends with a summary to help aid revision.

#### Contents

- The States of the Matter
- The Earth and the Atmosphere
- Investigating Substances
- Atomic Structure
- Bonding
- Representing Reactions
- The Periodic Table
- Metals
- Non-Metals
- Aqueous Chemistry
- Acids, Bases and Salts
- Quantitative Chemistry
- Electrochemistry
- Rates of Reaction
- Organic Chemistry
- Chemistry in Industry
- Chemistry and the Environment



**Authors:** A H Siddiqi | P Manchanda  
Usha Raghavan

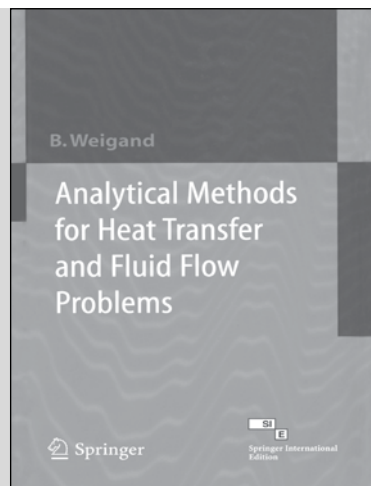
**ISBN:** 978-1403-93018-7 | PB  
**Pages:** 528 | **Price:** ₹ 345.00  
**Rights:** World

#### About the Book

A First Course in Differential Equations with Applications is an introductory text on differential and partial differential equations providing a basic understanding of an important branch of Applied Mathematics. Placing emphasis on applications, this book underpins a proper understanding of real world problems arising in diverse fields such as physical, biological, medical, environmental and agriculture sciences, different branches of engineering, information technology, and bioinformatics. Intended primarily to serve as a textbook for undergraduate students of science and engineering streams, this book would also be useful to postgraduate students of different disciplines.

#### Contents

- Written and structured in a manner that makes it accessible to an average student.
- Includes a large number of applications so that most equation categories have an identifiable application area.
- Incorporates a large number of graded exercises, including applied problems that can be understood and solved by anyone with basic knowledge of calculus.
- Provides solutions, hints and answers to selected exercises.



**Authors:** B. Weigand

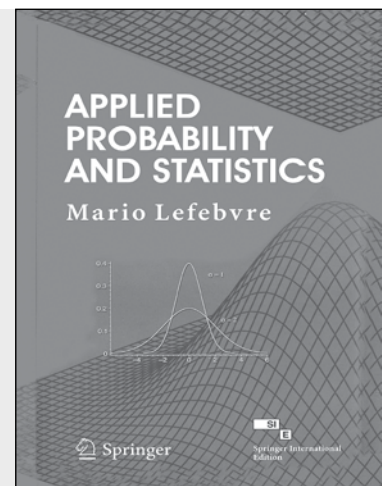
**ISBN:** 978-8184-89040-2 | HB  
**Pages:** 280 | **Price:** ₹ 365.00  
**Rights:** World

#### About the Book

Although the solution of Partial Differential Equation by numerical methods is the standard practice in industries, analytical methods are still important for the critical assessment of results derived from advanced computer simulations and the improvement of the underlying numerical techniques. Literature devoted to analytical methods, however, often focuses only on theoretical and mathematical aspects and is therefore not helpful to most engineers. Analytical Methods for Heat Transfer and Fluid Flow Problems addresses engineers and engineering students. It describes useful analytical methods by applying them to real-world problems rather than solving the usual over-simplified classroom problems. The book demonstrates the applicability of analytical methods even for complex problems and guides the reader to a more intuitive understanding of approaches and solutions.

#### Contents

- Written and structured in a manner that makes it accessible to an average student.
- Includes a large number of applications so that most equation categories have an identifiable application area.
- Incorporates a large number of graded exercises, including applied problems that can be understood and solved by anyone with basic knowledge of calculus.
- Provides solutions, hints and answers to selected exercises.

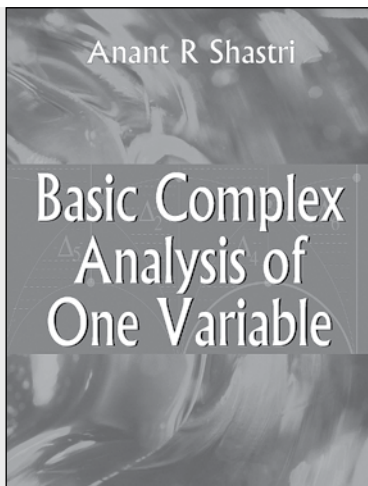


**Author:** Mario Lefebvre

**ISBN:** 978-8184-89043-3 | HB  
**Pages:** 376 | **Price:** ₹ 365.00  
**Rights:** World

#### About the Book

This text is designed for a one-semester course on Probability and Statistics. The exposition unfolds systematically from an introductory chapter to such topics as random variables and vectors, stochastic processes, estimation, testing and regression. The topics are well chosen and the presentation is enriched by many examples from real life. Following every chapter, the reader will find many original, solved and unsolved problems and hundreds of multiple choice question, enabling those unfamiliar with the topics to master them. Additionally appealing are the interesting historical notes on the mathematicians mentioned throughout and a useful bibliography. A distinguishing character of the book is the thorough and succinct handling of the various topics.



Anant R Shastri

## Basic Complex Analysis of One Variable

Author: Anant R Shastri

ISBN: 978-0230-33073-3 | PB

Pages: 372 | Price: ₹ 365.00

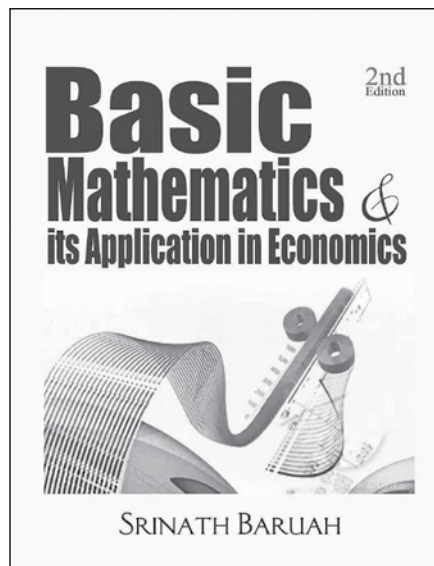
Rights: World

### About the Book

Thorough, yet simple, Basic Complex Analysis is an ideal mathematics text and reference for students as well as teachers at graduate and postgraduate levels. Written in an informal and interactive style, the book does not confront burden the students with definitions and theorems. Rather, each result is approached logically and explained patiently, with special emphasis on common questions that bother learners. The topological background needed in the development has been woven into the main body with great restraint.

### Contents

Basic Properties of Complex Numbers • Complex Differentiability • Conformality • Contour Integration • Zeros and Poles • Application to Evaluation of Definite Real Integrals • Local And Global Properties • Convergence in Function Theory • Dirichlet's Problem • Periodic Functions



## Basic Mathematics & its Application in Economics

2nd  
Edition

SRINATH BARUAH

## Basic Mathematics and Its Applications in Economics, 2/e

ISBN: 978-0230-32232-5

Pages: 496 | Price: ₹ 335.00 | HB

Rights : World

Author

Srinath Baruah

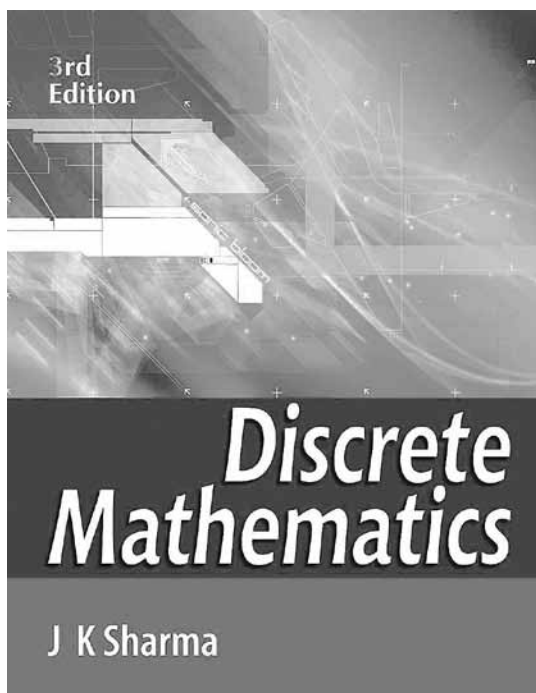
Srinath Baruah is a PhD in economics and a gold medalist from Gauhati University with specialization in Econometrics and Mathematical Economics. Professor Baruah taught in postgraduate department of Economics for more than 34 years and was Head of the Department of Economics and Dean, Faculty of Arts, Gauhati University.

### About the Book

Basic Mathematics: Applications in Economics is a thoroughly revised and enlarged edition, based on existing syllabus of mathematical methods applicable to Economics, Commerce and Management. The book will undoubtedly be helpful for any serious student of economics who not only needs a strong background in the quantitative methods and the applications of mathematical tools in economic theory but also needs to be well-versed with mathematical applications to problem of commerce and management.

### Contents

Sets, Relations and Function • Static – Equilibrium Analysis • Matrix Algebra and Economic Application • Differentiation • Economic Application of Derivative • Partial and Total Differentiation • Economic Application of Partial and Total Differentiation • Optimization Techniques–I: Unconstrained Maxima and Minima with Single Explanatory Variable • Economic Applications of Unconstrained Maxima and Minima with Single Explanatory Variable • Optimization Techniques– II: Unconstrained Maxima and Minima with more than One Explanatory Variable • Economic Applications of Unconstrained Maxima and Minima with more than One Explanatory Variable • Optimization Techniques–III: Optimization with Equality Constraint • Economic Applications of Constrained Optimization • Integration and Economic Applications • Differential Equation and Economic Application • Difference Equation and Economic Applications • Optimization with Inequality Constraints • Index



## Discrete Mathematics, 3/e

ISBN: 978-0230-32230-1

Pages: 496 | Price: ₹ 345.00 | PB

Rights : World

Author

J K SHARMA



Dr. J. K. Sharma, M.Sc., Ph.D., has been teaching at the Faculty of Management Studies, University of Delhi, since 1985. He has over 30 years of teaching experience in Operations Research, Business Statistics, mathematics and Logistics Management. He was awarded Gold Medal for securing first-class-first rank in his M.Sc. (Maths) examination. He has taught as a visiting professor at Group ESSEC (a Graduate School of Management) in France. He has authored 18 books and over 100 research papers and/or case studies and is actively involved in guiding students for their doctoral work.

### About the Book

The topics covered in this book have been chosen keeping in view the knowledge required to understand the functioning of the digital computer because many of its properties can be understood and interpreted within the framework of finite mathematical systems. This book provides a compact yet rigorous treatment of the major mathematical techniques available for study in theoretical computer science. In this edition, each chapter has been revised throughly to widen the scope of topics. Several solved and unsolved questions have been added in each chapter. Two new chapters Number Theory and Language, Grammar and Automata have been added.

### Contents

• Sets, Relations and Function • Static – Equilibrium Analysis • Matrix Algebra and Economic Application • Differentiation • Economic Application of Derivative • Partial and Total Differentiation • Economic Application of Partial and Total Differentiation • Optimization Techniques–I: Unconstrained Maxima and Minima with Single Explanatory Variable • Economic Applications of Unconstrained Maxima and Minima with Single Explanatory Variable • Optimization Techniques– II: Unconstrained Maxima and Minima with more than One Explanatory Variable • Economic Applications of Unconstrained Maxima and Minima with more than One Explanatory Variable • Optimization Techniques–III: Optimization with Equality Constraint • Economic Applications of Constrained Optimization • Integration and Economic Applications • Differential Equation and Economic Application • Difference Equation and Economic Applications • Optimization with Inequality Constraints • Index

## Elements of Numerical Analysis



**RADHEY S GUPTA**

Author: R S Gupta

ISBN: 978-0230-63660-6 | PB

Pages: 624 | Price: ₹ 345.00

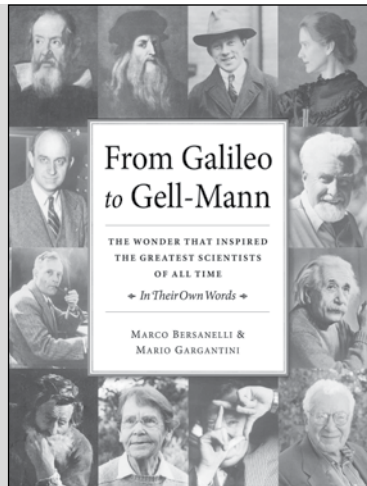
Rights: World

### About the Book

Elements of Numerical Analysis is intended to serve as a textbook for two-unit (one-year) course in Numerical Analysis at undergraduate or postgraduate level. The topics in the book have been dealt with rigorously and are supported by ample number of solved examples. Exercises are provided at the end of each chapter for practice. An attempt is made to present the subject in a simplified and systematic manner. In general, the treatment is self-contained; however, references are given wherever necessary after each chapter. The last chapter though does not form a part of the syllabus; it would prove to be useful to those engaged in research or in solving problems in applied fields.

### Contents

Errors In Computation • Linear Equations and Eigenvalue Problem • Non Linear Equations • Interpolation • Differentiation • Integration • Differential Equations • Splines and Their Applications • Eigen values of Symmetric Matrices • Partial Differential Equations • Methods of Least Squares • Finite Element Method • Integral Equations • Difference Equations • Free and Moving Boundary Problems



Author: Marco Bersanelli | Mario Gargantini

ISBN: 978-0230-33038-2 | HB

Pages: 334 | Price: ₹ 699.00

Rights: Indian Subcontinent

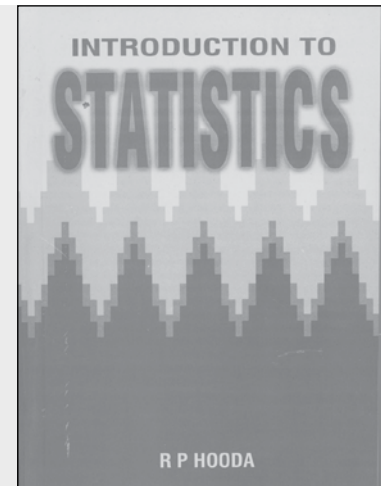
### About the Book

In From Galileo to Gell-Mann, Marco Bersanelli and Mario Gargantini have gathered writings from over one hundred of the world's brightest scientific minds on the question of "Why?" - specifically, why did these great scientists commit themselves so ardently to life in the laboratory? What was it that kept them dedicated to their research endeavors for years on end?

This new anthology is a goldmine of insight that previously could only be found hidden deep within thousands of scattershot pages of footnotes from out-of-print journals, rare books, and unpublished papers.

### Contents

Preface by Duccio Macchetto • Introduction • Wonder • Observation • Experiment • Discovery • Certainty • Sign • Purpose • Acknowledgements • Appendix A. Biographical Notes • Appendix B. Glossary • Notes • Index



**R P HOODA**

Author: R P Hooda

ISBN: 978-0333-93856-0 | PB

Pages: 398 | Price: ₹ 248.00

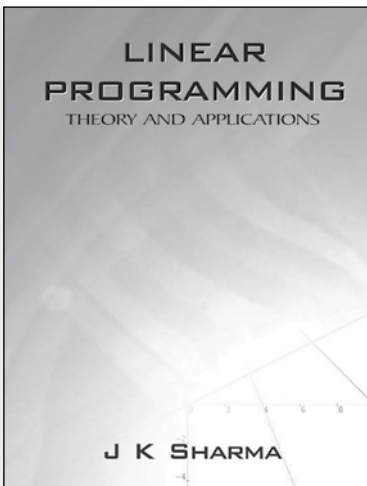
Rights: Indian Subcontinent

### About the Book

This text meets the elementary course needs of those new to learning statistics at the school or college level. Application-oriented methods including regression, correlation have been presented in simple terms.

### Contents

Defining Statistics: Understanding the Scope • Types of Data: Bases of Classification • Data Collection: Issues and Methods • Understanding Data: Rounding, Ratios, and Rates • Presentation of Data: Tabular and Graphic • Frequency Distribution: Construction and Graphic Presentation • Measures of Central Tendency: Mean, Median, and Mode • Dispersion: And its Measures • Skewness and Kurtosis: And Measures • Linear Regression and Correlation: The Two-Variable Case • Index Numbers: For Prices and Quantities • Time Series Analysis: Components and Decomposition • Introducing Probability: Concepts, Definition, and Postulates • Basic Probability Rules: For Different Events • Discrete Probability Distributions: Uniform, Binomial, and Poisson • The Normal Distribution • Appendices • Index



Authors: J K Sharma

hISBN: 978-0230-63436-7 | PB

Pages: 512 | Price: ₹ 345.00

Rights: World

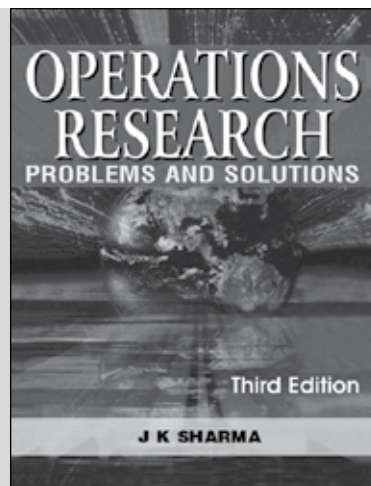
#### About the Book

The book helps readers in understanding problem-solving methods based on a careful discussion of model formulation, solution procedures and analysis.

It is intended to serve as a core textbook for students of BBA, B Com, CA and ICWA courses who need to understand basic concepts of linear programming and apply results directly to real-life business problems. The book also suits requirements of students of BA / BSc (Maths and Statistics) BCA and BIT courses who need both theoretical and practical knowledge of linear programming.

#### Contents

• L P Approach to Decision Making • Applications and Model Formulation • Graphical Method • Theory of Simplex Method • Applications of Simplex Method • Duality • Sensitivity Analysis • Parametric Analysis • Dual-Simplex Method • Revised Simplex Method • Bounded Variables L P Problem • Integer Linear Programming • Goal Programming • Transportation Problem • Assignment Problem • Appendix A: Pre-study of Linear Programming



Authors: J K Sharma

ISBN: 978-0230-63659-0 | PB

Pages: 912 | Price: ₹ 470.00

Rights: World

#### About the Book

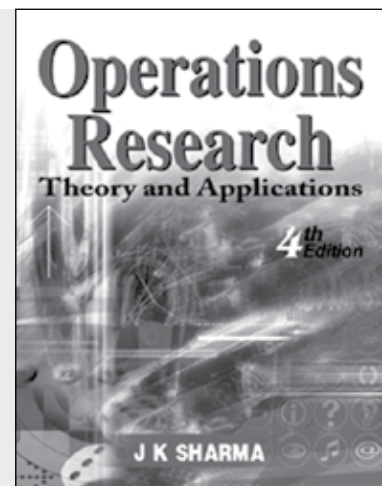
This revised edition elucidates the key concepts and methods of operations research. It aims to supplement textbooks on Operations Research (OR) and upgrade student's knowledge and skills in the subject.

Salient features

- Updated and suffused with numerous and varied solved examples to provide integrated view of theory and applications of operations research.
- Self-practice unsolved problems at the end of each chapter.
- Sufficient hints and answers to unsolved problems to enable students learn at their own pace.
- Complete conformity to the latest trend of questions, appearing in universities and professional examinations.

#### Contents

• Operations Research: An Introduction • Linear Programming: Model Formulation • Linear Programming: Graphical Solution Method • Linear Programming: Simplex Method • Revised Simplex Method • Dual Simplex Method • Bounded Variables LP Problems • Duality in Linear Programming • Sensitivity Analysis • Parametric Linear Programming • Integer Linear Programming • Goal Programming • Transportation Problem • Assignment Problem • Decision Theory and Decision Tree Analysis • Theory of Games • Project Management: PERT and CPM • Inventory Control • Queuing Theory • Replacement and Maintenance Models • Markov Chains • Simulation • Sequencing Problem • Information Theory • Dynamic Programming • Non-Linear Programming Methods Appendix



Author: J K Sharma

ISBN: 978-0230-63885-3 | PB

Pages: 976 | Price: ₹ 465.00

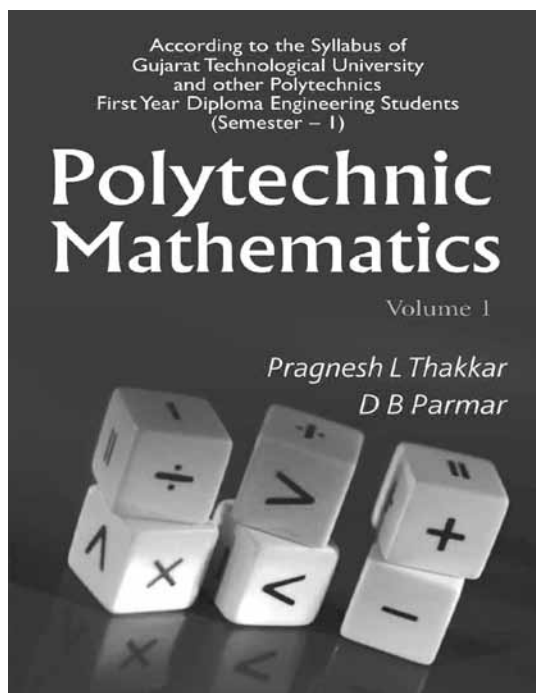
Rights: World

#### About the Book

Operations Research: Theory and Applications, is a comprehensive text for courses in Quantitative Methods, Operations Research, Management Science, Analytical Methods for Decision-Making, and other related subjects. This fourth edition of the book further enhances the easy-to-understand approach employed in the first three editions. It continues to provide readers an understanding of problem-solving methods based upon a careful discussion of model formulation, solution procedures and analysis.

#### Contents

Operations Research: An Introduction • Linear Programming: Applications and Model Formulation • Linear Programming: The Graphical Method • Linear Programming: Simplex Method • Duality in Linear Programming • Sensitivity Analysis in Linear Programming • Integer Linear Programming • Goal Programming • Transportation Problem • Assignment Problem • Decision Theory and Decision Trees • Theory of Games • Project Management: PERT and CPM • Deterministic Inventory Control Models • Probabilistic Inventory Control Models • Queuing Theory • Replacement and Maintenance Models • Markov Chains • Simulation • Sequencing Problem • Information Theory • Dynamic Programming • Classical Optimization Methods • Non-Linear Programming Methods • Theory of Simplex Method • Revised Simplex Method • Dual-Simplex Method • Bounded Variables LP Problem • Parametric Linear Programming



## Polytechnic Mathematics Vol I

ISBN: 978-0230-32327-8

Pages: 322 | Price: ₹ 170.00 | PB

Rights : World



Author

PRAGNESH L THAKKAR | D B PARMAR

Pragnesh L Thakkar is Assistant Professor of Mathematics at Institute of Diploma Studies, Nirma University, Ahmedabad. He obtained his M.Sc. Degree with Gold Medal in 2006 from School of Science, Gujarat University, Ahmedabad.

D B Parmar is Assistant Professor of Mathematics at Institute of Diploma Studies, Nirma University, Ahmedabad. He obtained his M.Sc. Degree in 2002 and M.Phil Degree in 2005 from Sardar Patel University, Vallabh Vidyanagar, Gujarat.

### About the Book

This book serves as a basic text for students pursuing the foundation course in Engineering Mathematics. The primary objective of writing this book is helping students to acquire basic concepts of mathematics through relevant examples. This will further enable them to apply the theories to solve challenging mathematical problems in engineering and arrive at thorough understanding.

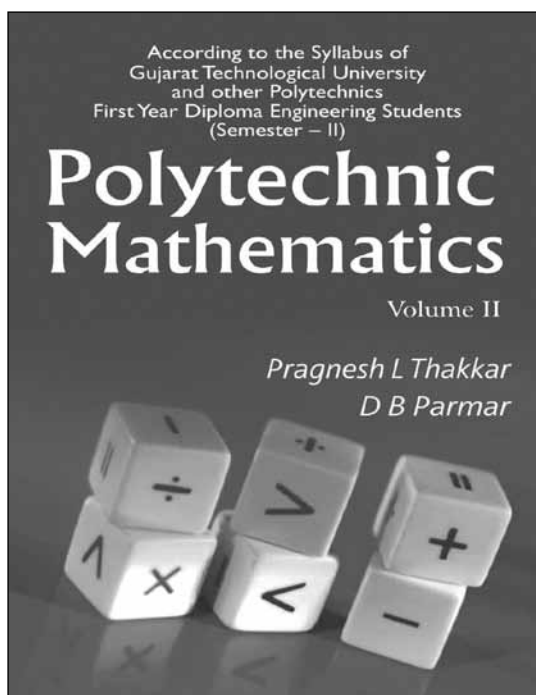
This book comprises 7 chapters covering surds, indices, logarithm, A.P. & G.P., Binomial theorem, Matrices, Vector and Trigonometry. All concepts and definitions have been discussed in detail and explained with suitable examples in each chapter.

Some unique features of this book are:

- Detailed theory with examples
- Large number of solved examples
- Plenty of unsolved exercises
- Challenging Problems in Miscellaneous Examples
- Multiple Choice Questions
- Summary

### Contents

- Adsorption
- Chemical Kinetics
- Photochemistry
- Statistical Thermodynamics
- Macromolecules
- Index



## Polytechnic Mathematics Vol 2

ISBN: 978-0230-32346-9

Pages: 384 | Price: ₹ 225.00 | PB

Rights : World



*Author*

PRAGNESH L THAKKAR | D B PARMAR

**Pragnesh L Thakkar** is Assistant Professor of Mathematics at L D College of Engineering, Ahmedabad. He obtained his M.Sc. Degree with Gold Medal in 2006 from School of Science, Gujarat University, Ahmedabad.

**D B Parmar** is Assistant Professor of Mathematics at Institute of Diploma Studies, Nirma University, Ahmedabad.

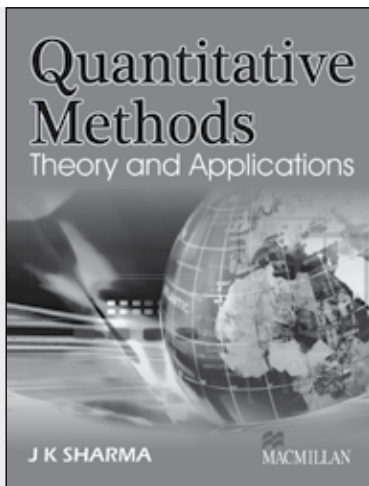
### About the Book

This book serves as a basic text for students pursuing the foundation course in Engineering Mathematics. The primary objective of writing this book is helping students to acquire basic concepts of mathematics through relevant examples. This will further enable them to apply the theories to solve challenging mathematical problems in engineering and arrive at thorough understanding.

The book comprises 6 chapters covering point, straight line, circle, function and limit, differentiation and integration. In each chapter, all concepts and definitions have been discussed in detail and explained with suitable examples.

### Contents

- Point
- Straight Line
- Circle
- Functions and Limit
- Differentiation
- Integration and its Application
- Application of Integration
- Index



Author: J K Sharma

ISBN: 978-0230-32871-6 | PB

Pages: 864 | Price: ₹ 450.00

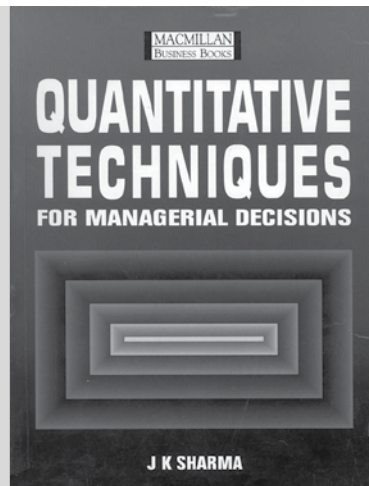
Rights: World

#### About the Book

Quantitative Methods: Theory and Applications, is a comprehensive textbook for both undergraduate and postgraduate courses on Operations Research, Management Science, and other similar courses. This book helps in understanding model building, solution procedures and analysis of results obtained either by manual methods or by using computer software. Students of professional courses who need to understand basic concepts of quantitative methods and apply results directly to real-life business problems would find this book very useful.

#### Contents

Preface • Quantitative Approach to Decision Making • Fundamentals of Probability • Probability Distributions • Decision Theory and Decision Trees • Game Theory • Linear Programming: Applications and Model Formulation • Linear Programming: The Graphical Method • Linear Programming: The Simplex Method • Duality in Linear Programming • Sensitivity Analysis in Linear Programming • Integer Linear Programming • Goal Programming • Transportation Problem • Assignment Problem • Project Management: PERT and CPM • Deterministic Inventory Control Models • Queuing Theory • Markov Chains • Simulation • Classical Optimization Methods • Investment Analysis and Break-even Analysis • Forecasting and Time Series Analysis • Conceptual Questions B • Self-Practice Problems C • Hints and Answers • Chapter Concepts Quiz • Appendix • Selected References • Index



Author: J K Sharma

ISBN: 978-0333-93503-3 | HB

Pages: 928 | Price: ₹ 355.00

Rights: World

#### About the Book

Quantitative Techniques for Managerial Decisions is an introductory text for both undergraduate and postgraduate courses on Quantitative Methods, Operations Research, Management, Science and similar courses. This book helps an understanding of model building, solution procedures and analysis of results obtained either by manual methods or using computer software. Students of MBA/PGDBM, BCom, MCom, MA (Eco), CA, ICWA, BBA, BIS/BIT/BCA who need to understand basic concepts of quantitative techniques and apply results directly to real life business problems, would find this book very useful.

#### Contents

Operations Research: Quantitative Approach to Decision Making • Applications of Linear Programming: Model Formulation • Linear Programming: Graphical Solution Method • Linear Programming: Simplex Method • Duality in Linear Programming • Sensitivity Analysis • Integer Linear Programming • Goal Programming • Transportation Problem • Assignment Problem • Decision Theory and Decision Trees • Theory of Games: An Interactive Decision Approach • Project Management: PERT and CPM • Inventory Control Deterministic Models • Inventory Control Probabilistic Models • Queuing Theory • Replacement and Maintenance Models • Markov Chains • Simulation • Sequencing Problem • Dynamic Programming • Appendix: Selected Statistical Tables • Selected References • Index



Author: Swarn Singh | Suruchi Singh

ISBN: 978-1403-92950-1 | PB

Pages: 288 | Price: ₹ 160.00

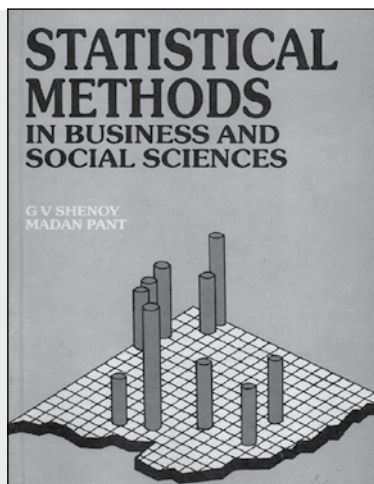
Rights: World

#### About the Book

This book presents the concepts of three-dimensional geometry in a simple and lucid style within the realm of understanding of students of every genre. The matter has been arranged in such a way that even a beginner will find no difficulty in understanding and grasping the content of the book. The book covers most of the academic requirements of the various courses like B.A./B.Sc. (Hons) and pass courses of Indian universities. It will also be useful for engineering students and for those aspiring for other professional competitive examinations including IAS, IFS and PCS.

#### Contents

Preface  
 • Co-ordinate Systems  
 • Direction-Cosines and Projections  
 • The Plane  
 • The Straight Line  
 • Volume of a Tetrahedron  
 • Change of Axes  
 • Sphere  
 • The Cone  
 • The Cylinder  
 • Quadratic Surfaces  
 Index



Authors: G V Shenoay | Madan Pant

hISBN: 978-0333-92554-6 | PB

Pages: 406 | Price: ₹ 295.00

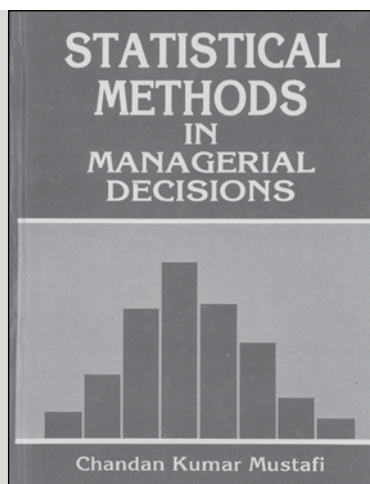
Rights: World

#### About the Book

This book has been specifically written for students of management and social sciences, to encourage use of statistical methods in problems on data analysis. It is also a useful reference for practising managers and researchers. The aim of the book is to make the application of statistical methods easy and simple, particularly through the use of present-day computer packages.

#### Contents

Probability Theory and Probability Distributions • Discrete Probability Distributions • Continuous Probability Distributions • Sampling Schemes and Sampling Distributions • Statistical Inference: Estimation • Statistical Inference: Hypotheses Testing • Non-parametric Statistics • Analysis of Variance and Co-variance • Correlation Analysis • Regression Analysis • Multi-variate Statistical Analysis • Forecasting Techniques • Decision Analysis • Appendices • Glossary • Select Bibliography • Index



Authors: Chandan Kumar Mustafi

ISBN: 978-0333-90348-3 | PB

Pages: 356 | Price: ₹ 315.00

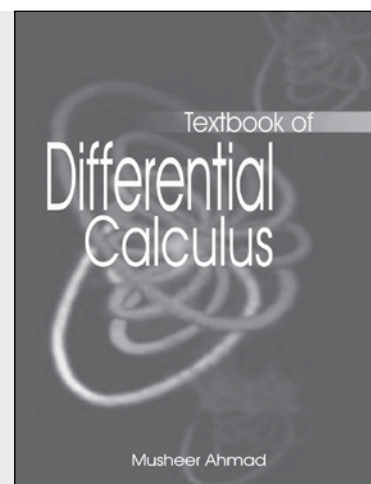
Rights: World

#### About the Book

This textbook has been prepared for students of modern business administration of Indian universities. The book covers both basic theory and practical aspects of business statistics. Exercises at the end of chapters contain problems based on Indian data.

#### Contents

Introduction • Representation and Description of Data • Measures of Central Tendency and Dispersion • Probability • Discrete Random Variables • Continuous Random Variables • Bivariate Distribution • Elements of Sampling • Estimation • Hypothesis Testing: Large Samples • Inference from Small Samples • Large-Sample Hypothesis Testing for Frequency Data • Analysis of Variance • Regression and Correlation • Decision Theory • Statistical Tables



Author: Musheer Ahmad

ISBN: 978-1403-92901-3 | PB

Pages: xxx | Price: ₹ 215.00

Rights: World

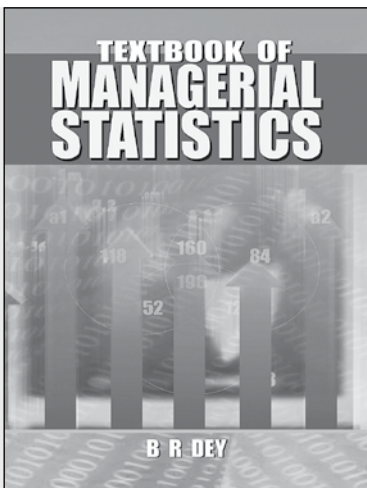
#### About the Book

Calculus is central to all branches of science and engineering. This book on Differential Calculus is written according to the UGC Model Curriculum and presents an integrated study of the subject to BA/BSc and engineering students and also those aspiring for Civil and State Services Examinations. Structured into 12 chapters, Textbook of Differential Calculus first spells out the fundamental concepts of the subject and then goes on to discuss core topics such as,

Limits, Continuity and Differentiability, Successive Differentiation and Leibnitz's Theorem, Tangents and Normals, Expansion of Functions in Series, Partial Differentiation, and so on. The present book is an outcome of the author's years of teaching experience of the subject at various levels of academics.

#### Contents

- Includes fundamental concepts, illustrative examples and their applications to various problems.
- Each chapter starts with clear definitions, and then enunciates principles and theorems.
- Each chapter contains a large number of solved examples culled from the question bank of different universities.



Author: B R Dey

ISBN: 978-1403-92758-3 | PB

Pages: 336 | Price: ₹ 270.00

Rights: World

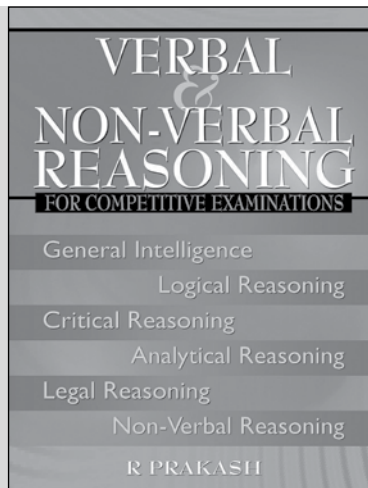
#### About the Book

This book strictly follows the UGC curriculum for courses in Management. The topics have been carefully selected to make it more relevant in the context that all the management related statistical books are either too detailed or too theoretical. A management student is often lost in the maze of detailed derivations of formulae, which are not needed in a management course. They face problems in applying these concepts in projects that constitute a part of their academic curriculum.

The book has endeavored to describe and illustrate the concepts in a language that is clear and simple. Several business-oriented examples are worked out to help the students understand the concepts and see their applications in industry. Most of the problems at the end of each chapter relate to the business world. The students understanding of the concepts is likely to be reinforced.

#### Contents

Preface • Basic Statistical Concepts • Probability Theory and Probability Distributions • Hypothesis Testing: Single Population • Hypothesis Testing: Two Populations • Chi Square ( $\chi^2$ ) Tests of Hypotheses • Correlation-Regression Analysis • Analysis of Variance • Decision Theory • Statistical Process Control • Bibliography • Index



Author: P Prakash

ISBN: 978-1403-92474-2 | HB

Pages: 504 | Price: ₹ 285.00

Rights: World

#### About the Book

This book endows the readers with the skill and common sense needed to tackle the questions on Reasoning in competitive examinations.

The questions in each exercise are so arranged that the level of difficulty increases gradually and allows the reader to transit smoothly from the simplest to the complex questions.

#### Contents

Assumption or Implication of a Statement • Series: Letter and Number Series • Analogy Test • Coding, Decoding • Observation • Relationship Concepts • Visual Memory • Alphabet Problems • Classification and Difference • Mathematical Puzzles • Analysis: Analytical Reasoning • Space Orientation or Direction Test • Analytical Functions • Judgement: Cause and Effect; Input-Output • Reasoning Comprehension • Data Sufficiency • Upstream, Downstream Arguments • Forcefulness of the Arguments • Legal Reasoning • Critical Reasoning • Logical Deduction • Logical Diagrams • Immediate Inference • Logical Consistency • Hypothetical Argument • Enthymeme or Finding a Missing Premise • Logically Parlogically Parallel Statements • Opinion or Fact • Decision Making • Non-Verbal Reasoning • Sample Paper

## A First Course in Graph Theory

*Author:* S A Choudum  
ISBN: 978-0333-92040-4 | PB  
Pages: 132 | Price: ₹ 120.00

## Advances in Statistics

*Authors:* Arnold  
ISBN: 978-0230-63877-8 | PB  
Pages: xxx | Price: ₹ 660.00

## An Elementary Treatise on Coordinate Geometry of Three Dimensions

*Authors:* Robert J T Bell  
ISBN: 978-0333-91971-2 | PB  
Pages: 448 | Price: ₹ 160.00

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*Author:* Anant R Shastri  
ISBN: 978-0333-93241-4 | PB  
Pages: 316 | Price: ₹ 240.00

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*Author:* E Balagurusamy  
ISBN: 978-0333-90960-7 | PB  
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*Author:* F Castle  
ISBN: 978-0333-91979-8 | HB  
Pages: 64 | Price: ₹ xx.00

## General Topology

*Author:* Sribasta Nanda | Sudarsan Nanda  
ISBN: 978-0333-92713-7 | PB  
Pages: 176 | Price: ₹ 145.00

## Graph Theory and Its Applications

*Authors:* K. Somasundaram  
ISBN: 978-0230-63863-1 | HB  
Pages: 348 | Price: ₹ 990.00

## Higher Algebra

*Authors:* Robert J T Bell  
ISBN: 978-0333-02457-7 | PB  
Pages: 448 | Price: ₹ 160.00

## Introduction to Functional Analysis

*Author:* S C Bose  
ISBN: 978-0333-92712-0 | PB  
Pages: 264 | Price: ₹ 175.00

## Mathematical Analysis for Economists

*Author:* R G D Allen  
ISBN: 978-0333-90507-4 | PB  
Pages: 564 | Price: ₹ 295.00

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*Author:* Ashis Sengupta  
ISBN: 978-0230-63642-2 | HB  
Pages: 216 | Price: ₹ 600.00

## Numerical Methods for Engineering Problems

*Author:* N Krishna Raju | K U Muthu  
ISBN: 978-0333-92424-2 | PB  
Pages: 408 | Price: ₹ 310.00

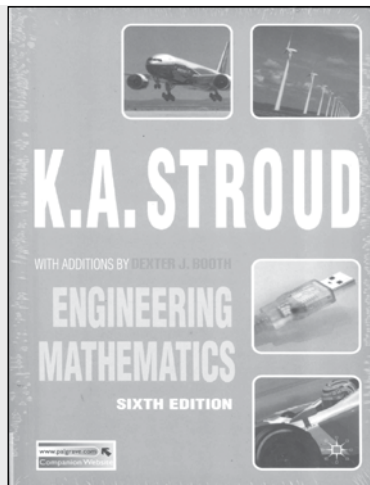
## Science and Technology in Uttarakhand

*Authors:* Rajendra Dobhal | B S Kotlia  
ISBN: 978-0230-63681-1 | HB  
Pages: 286 | Price: ₹ 990.00

## The Elements of Coordinate Geometry

*Authors:* S L Loney  
ISBN: 978-0333-91612-4 | PB  
Pages: 440 | Price: ₹ 58.00

## Titles on Mathematics and Statistics from Palgrave



Author: Stroud

ISBN: 978-1403-93302-7 | PB

Price: ₹ 625.00

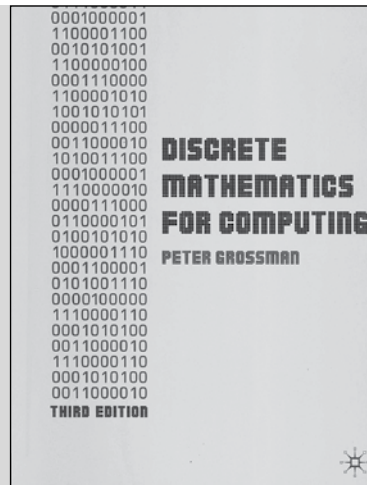
Rights: Indian Subcontinent

#### About the Book

This revised and expanded best-selling advanced engineering mathematics textbook offers everything a student needs. Including four new topics and with several other topics extended in their coverage, this is a comprehensive course for all undergraduates in engineering and science from second year level onwards. Its highly successful technique-oriented approach guides the student through the development of each topic.

#### Contents

Preface to the First Edition/Preface to the Second Edition/Preface to the Third Edition/Preface to the Fourth Edition/Hints on Using the Book/Useful Background Information/Numerical Solutions of Equations and Interpolation/Laplace Transforms/PART ONE: Laplace Transforms/PART TWO: Laplace Transforms/PART THREE: Z Transforms/Fourier Series/Introduction to the Fourier Transform/Power Series Solutions of Ordinary Differential Equations/Numerical Solutions of Ordinary Differential Equations/Partial Differentiation/Partial Differential Equations/Matrix Algebra/Numerical Solutions of Partial Differential Equations/Multiple Integration/PART ONE; Multiple Integration/PART TWO Integral Functions/Vector Analysis Part 1/Vector Analysis Part 2/Vector Analysis Part 3/Complex Analysis Part 1/Complex Analysis Part 2/Complex Analysis Part 3/Optimisation and Linear Programming.



Author: Grossman

ISBN: 978-0230-53767-5 | PB

Price: £4.99

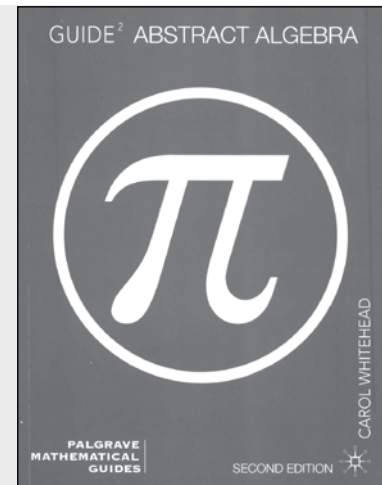
Rights: Indian Subcontinent

#### About the Book

Written with a clear and informal style Discrete Mathematics for Computing is aimed at first year undergraduate computing students with very little mathematical background. It is a low-level introductory text which takes the topics at a gentle pace, covering all the essential material that forms the background for studies in computing and information systems.

#### Contents

List of Symbols/Introduction to Arithmetic/Bases and Number Representation/Computer Representation and Algorithms/Logic/Sets and Relations/Functions/Induction and Recursion/Boolean Algebra and Digital Circuits/Combinatorics/Introduction to Graph Theory/Trees/Number Theory/Algorithms and Computational Complexity.



Author: Whitehead

ISBN: 978-0230-57418-2 | HB

Price: £8.99

Rights: Indian Subcontinent

#### About the Book

A second edition of this clear and readable text, introducing the basic topics of an introductory abstract algebra course. A wide variety of exercises and worked examples are provided. This edition has new sections on Polynomials, Finite Arithmetic and Complex Numbers.

#### Contents

Sets/Relations/Mappings/The Integers/Number Systems/Polynomials.



Author: Towers

ISBN: 978-0230-57412-0 | PB

Price: £ 7.99

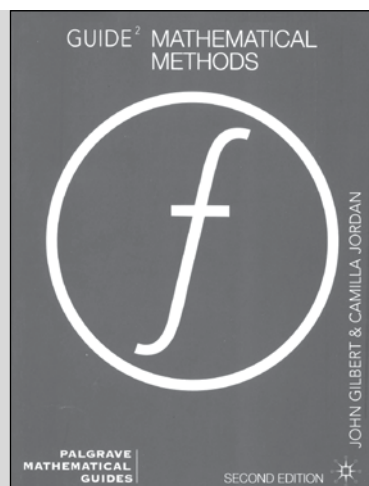
Rights: Indian Subcontinent

#### About the Book

This text emphasises on the applications of various numerical techniques to civil engineering problems. The use of computer programs in solving such engineering problems is also included.

#### Contents

Solution of Linear System of Equations by Direct Methods • Solution of Linear System of Equations by Iterative Methods • Solution of Non-Linear Equations • Solution of Ordinary Differential Equations • Numerical Integration • Finite Difference Methods • Optimization • Computer Programming • Appendix • Select References • Index



Author: Gilbert

ISBN: 978-0230-57414-4 | PB

Price: £ 9.99

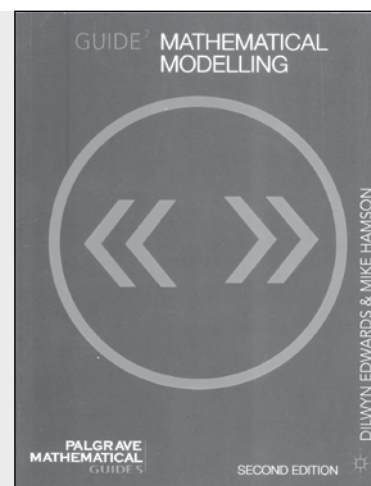
Rights: Indian Subcontinent

#### About the Book

A second edition of this text for science and engineering undergraduates which introduces the mathematical techniques and tools needed to solve the mathematical problems they will face on the first year of their course. Updated and revised by Camilla Jordan, the book now has additional examples and 'Aims and Objectives' sections. As with other titles in the Mathematical Guides series, this book is designed to enable students to acquire confidence and provides a solid foundation for further study.

#### Contents

Preface/Symbols/notation and Greek letters/Preliminaries/Functions/Differentiation/Further Functions/Applications of Differentiation/Integration/ Further Integration/Linear Equations and Matrices/Vectors/Functions of Two Variables/Line Integrals/Double Integrals/Complex Numbers/Differential Equations.



Authors: Edwards

ISBN: 978-0230-57410-6 | HB

Price: £ 8.99

Rights: Indian Subcontinent

#### About the Book

A basic introduction to Mathematical Modelling, this book encourages the reader to participate in the investigation of a wide variety of modelling examples. These are carefully paced so that the readers can identify and develop the skills which are required for successful modelling. The examples also promote an appreciation of the enormous range of problems to which mathematical modelling skills can be use fully applied.

#### Contents

What is Modelling?/Getting Started/Modelling Methodology/Modelling Skills/Using Difference Equations/Using Differential Equations/Using Random Numbers/Using data/Example Models/Report Writing and Presentation.



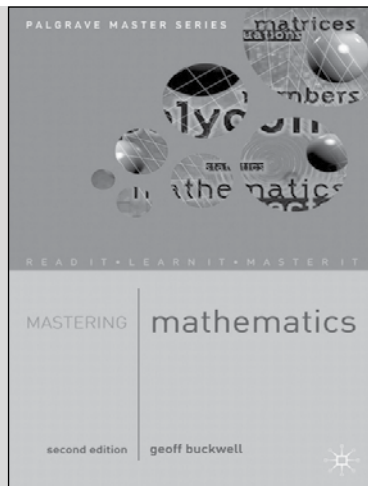
**Authors:** Turner  
**ISBN:** 978-0230-57417-5 | PB  
**Price:** £ 8.99  
**Rights:** Indian Subcontinent

About the Book

This book is a gentle and sympathetic introduction to many of the problems of scientific computing, and the wide variety of methods used for their solutions. It is ideal for students taking a first course in numerical mathematics who need a low level entry to the subject. It gives an appreciation of the need for numerical methods for the solution of different types of problem, and discusses basic approaches.

Contents

Number Representations and Errors/  
 Iterative Solution of Equations/Approximate  
 Evaluation of Functions/Interpolation/  
 Numerical Calculus/Differential Equations/  
 Linear Equations/MATLAB Basics/Answers  
 to Exercises.



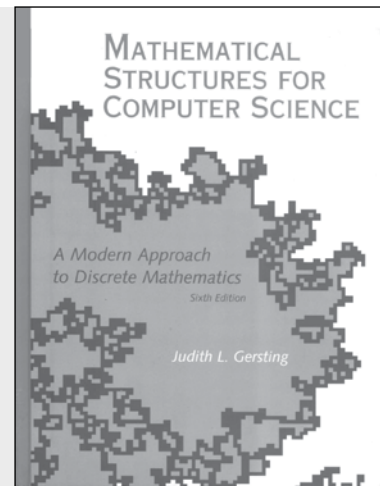
**Author:** Buckwell  
**ISBN:** 978-140394-421-4 | PB  
**Price:** £ 7.99  
**Rights:** Indian Subcontinent

About the Book

The second edition of this popular book has been fully revised. Geoff Buckwell combines a practical approach with a clear straightforward style. \* A complete, self-contained course for individual study or classroom use \* Investigations to help you explore topics in a more practical way \* Problems at the end of chapters to consolidate what you have learned \* Explains pencil and paper techniques in full \* Illustrations and revision materials for enjoyable learning

Contents

Introduction - Acknowledgements - Working with Whole Numbers - Working with Fractions and Decimals - Introducing Algebra - Ratios and Percentages - Angle and Shape - Length, Area and Volume - Trigonometry - Geometry and Construction - Statistics - More Algebra - Probability - Coordinates and Straight Line Graphs - Curves, Functions and Equations - The Circle and Further Trigonometry - Matrices - Vectors and Transformations - The Calculus - Hints and Solutions to Investigations - Answers to Exercises - Index



**Author:** Gersting  
**ISBN:** 978-1403-93701-8 | PB  
**Price:** £4.99  
**Rights:** Indian Subcontinent

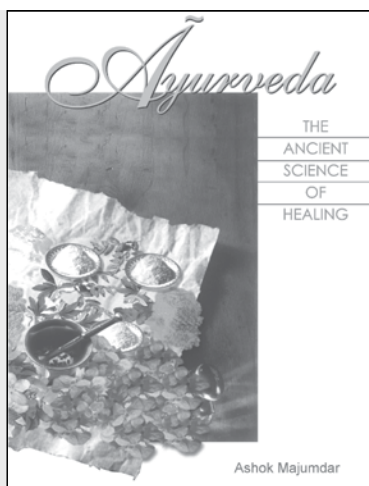
About the Book

This Sixth Edition of Mathematical Structures for Computer Science covers all the topics in the CC2001 suggested curriculum for a one-semester intensive discrete structures course, and virtually everything suggested for a two-semester version of a discrete structures course. Gersting's text binds together what otherwise appears to be a collection of disjointed topics by emphasizing the following themes:

- Importance of logical thinking
- Power of mathematical notation
- Usefulness of abstractions

Contents

- Formal Logic
- Proofs, Recursion, and Analysis of Algorithms
- Sets, Combinatorics, and Probability
- Relations, Functions, and Matrices
- Graphs and Trees
- Graph Algorithms
- Boolean Algebra and Computer Logic
- Modeling Arithmetic, Computation, and Languages
- Appendix A Summation Notation
- Appendix B The Logarithm Function
- Answers to Practice Problems
- Answers to Selected Exercises
- Answers to Self Tests
- Index



**Author:** Ashok Majumdar

**ISBN:** 978-1403-92234-2 | PB

**Pages:** 448 | **Price:** ₹ 58.00

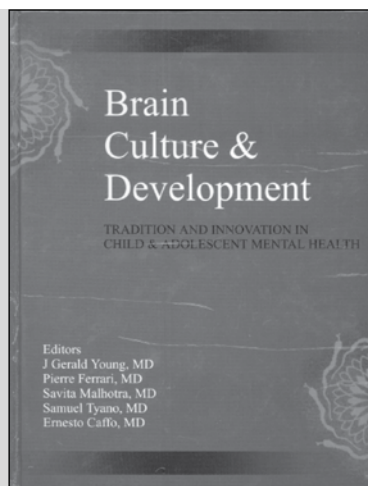
**Rights:** World

#### About the Book

This is a comprehensive book on ayurvedic medicine, which covers all the aspects of ayurveda, presenting scientific interpretations to classical concepts of ancient India. This handy manual will prove very useful for students and researchers as well as for practitioners of alternative medicine.

#### Contents

Basic Scientific Concept of Āyurveda • General Introduction • Eight Specialized Subjects in Āyurveda • Natural Philosophy • Bioregulating Principles: Tridosha • The Interior of the Body and the Digestive Processes • Understanding Tastes: Rasas • Pathology in Āyurveda • Diagnostic Methodology in Āyurveda: Nidāna • General Principles of Treatment: Chikitsā • Ancient Indian Body Purification Therapy: The Panchakarma Therapy • Weights and Measures in Ancient India: Mān Parikshā • Pharmaceutical Preparations Used in Āyurvedic Therapy • Rasa Shāstra: Minerals, Metals and Gems in Āyurvedic Therapy • Pulse in Āyurveda: Nādivigyāna • Concept of Nādi in Ancient Texts • Prāna: The Life Factor • Health Village/Resort According to Āyurvedic Principles – A Proposal • A Concise Survey of the Ancient Texts in India Related to Science • Globalization of Āyurveda • Appendices • Glossary of Sanskrit Terms • Bibliography • Index



**Author:** Towers

**ISBN:** 978-1403-90925-1 | PB

**Pages:** 300 | **Price:** ₹ 320.00

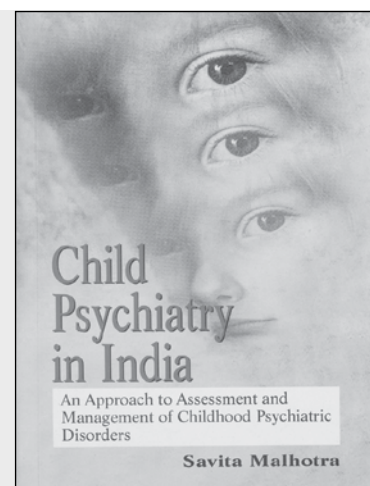
**Rights:** World

#### About the Book

This book highlights the importance of integrating biological and socio-cultural themes to understand child development. It emphasises the need for incorporating new knowledge and innovations into the traditional practices of child and adolescent psychiatry. An ideal book for practising psychiatrists.

#### Contents

Conceptual Foundations: Children and Culture • Cultural Influences on the Developing of Children • Cross-Cultural Contrasts: Epidemiology, Vulnerability, and Stress • Integrating Cultural Perspectives into Clinical and Social Policy Planning • Contributors



**Authors:** Savita Malhotra

**ISBN:** 978-0333-93741-9 | HB

**Pages:** 264 | **Price:** ₹ 198.00

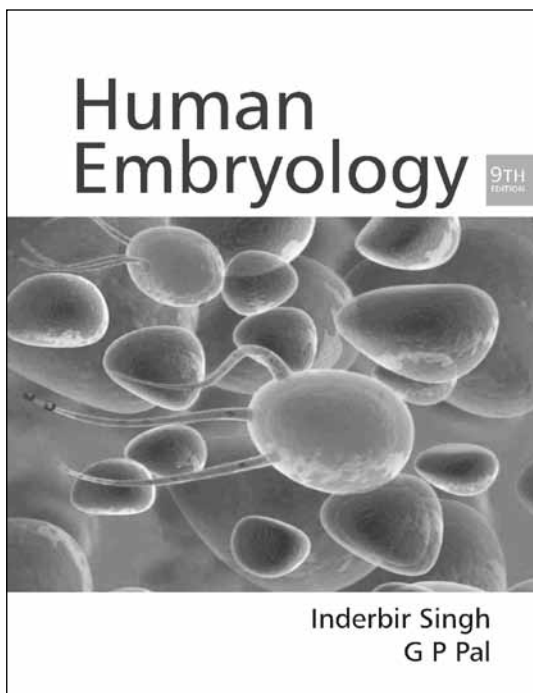
**Rights:** World

#### About the Book

This book has been written to help and guide child and adult psychiatrists, paediatricians and psychologists to assess psychiatric problems in children and adolescents. The author concentrates on the assessment and management of childhood psychiatric disorders which are the cornerstone of child psychiatry.

#### Contents

Child Psychiatry: Origins and Development • The Role of Family and School in Child Development • Approaches to Psychiatric Assessment and Interview • Interview Techniques in Child Psychiatry • Neuro-development Assessment • Psychological Assessment of children • Structured Assessment and some Indian Scales • Diagnosis and Classification • Management Strategies • Special Issues in Adolescence • Psychiatric and Behavioural Emergencies • Glossary of Terms • Appendices • Index



## Human Embryology, 9/e

ISBN: 978-9350-59122-2

Pages: 356 | Price: ` 575.00 | PB

Rights : World

Author

Inderbir Singh | G P Pal



### About the Book

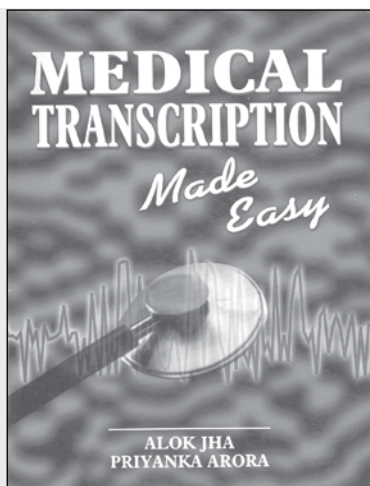
This is the ninth edition of the best-selling title, Human Embryology, first published in 1976. It's not only the leading textbook, but has now become an authority on the subject. It's long-standing popularity is on account of it's readability, concise and clear text, and a large number of simple but informative illustrations.

The book presents essential concepts in human development for medical students. Each chapter opens with highlights, followed by various descriptions of the normal development of particular systems in a systematic manner, and concludes with a time-table of development events.

To avoid unnecessary details that could interrupt the flow for undergraduate students, some aspects of the subject relevant only for postgraduate students are available in the accompanying CD.

### Contents

Interdependence of oocyte and follicular • cells Non-dysjunction during meiosis • Phases of menstrual cycle • Hormonal control of ovarian and uterine • cycles Use of stem cells in treatment of diseases • Neural crest derivatives • Development of the heart • Development of the kidney • Differentiation of genital organs • Development of the eye



Author: Alok Jha | Priyanka Arora

ISBN: 978-0333-93795-2 | PB

Pages: 400 | Price: ₹ 499.00

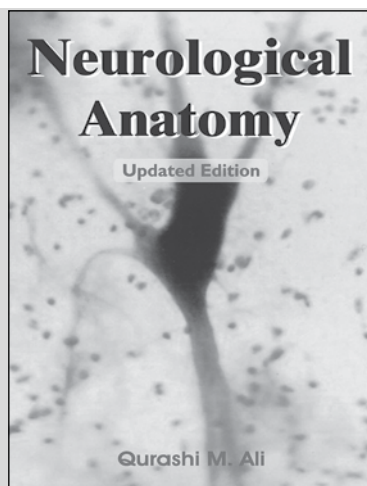
Rights: World

#### About the Book

An ideal book for Indian Medical Transcriptionists (MTs). The book gives information about MT, guidelines and essentials of English language and basic knowledge of human anatomy, pathology, diagnostic and clinical procedures and related vocabulary.

#### Contents

Introduction • Human Body – Basics • Medical Terminology – Basics • Dermatology • Ophthalmology • Otorhinolaryngology • Pulmonology • Cardiology • Gastroenterology • Genitourinary System • Gynecology and Obstetrics • Orthopedics • Neurology • Endocrinology • Immunology, Lymphatics, and Hematology • The Nitty-Gritty of those Punctuation Marks • Grammar • Common Errors • Transcription Guidelines • Appendices • Index



Author: Qurashi Ali

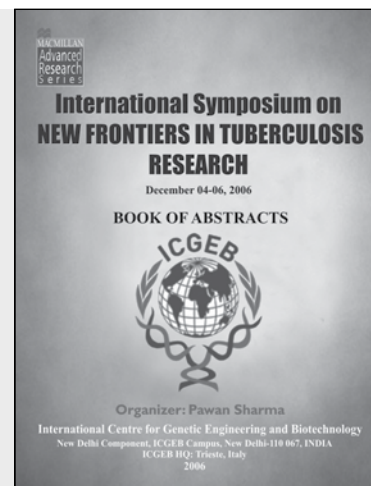
ISBN: 978-1403-93109-2 | PB

Pages: 320 | Price: ₹ 298.00

Rights: World

#### About the Book

Neurological Anatomy is a comprehensive text of applied neuroanatomy. It would prove useful to undergraduate students taking neuroscience courses, clinical students training in neurology and neurosurgery and practitioners who often encounter symptoms and signs that need a structural explanation. The book consists of 18 chapters and covers all parts of the nervous system, including peripheral plexuses, which are usually left out in neuroanatomy books. The organization of the text material maintains the anatomical narrative and, at the same time, inserts applied points from all relevant clinical specialities. The very basic concepts, essential for the medical students, have been highlighted in 146 paragraphs entitled 'Summary Interval'. The content of these paragraphs can be used as bases for 'minimum pass level' in innovative curricula. The book is profusely illustrated with photographs and line drawings.



Author: Pawan Sharma

ISBN: 978-0230-63004-8 | HB

Pages: 248 | Price: ₹ 263.00

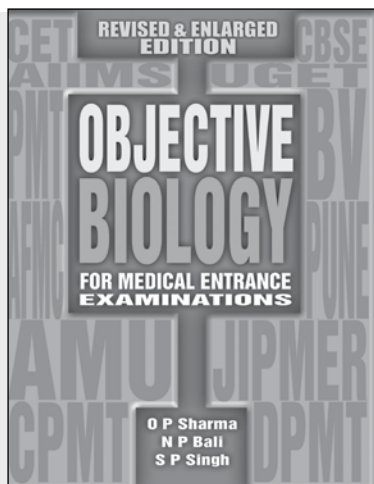
Rights: World

#### About the Book

These are the abstracts of the Proceedings of the International Symposium on New Frontiers in Tuberculosis Research held at New Delhi on December 4-6, 2006.

#### Contents

1. Class III Nucleotide cyclases in Bacteria: Conservation and Divergence of Enzymes in Mycobacteria tuberculosis
2. In vitro Intercellular Bactericidal activity
3. Concentration Dependent Bactericidal Activity of oxazolidinone
4. In vitro antimicrobial sensitivity testing and protein profile
5. Anti tuberculosis Treatment Resistant pulmonary Tuberculosis
6. HIV-TB Coinfection
7. Detection of Mycobacterium tuberculosis
8. Evaluation of Reverse line Blot assay for Detection point
9. Comparison of In House Radioassay kit
10. Molecular cloning high level expression and immunological reactivity.
11. Role of Fasligand/FAS system
12. Finite element analysis of High Aspect Ratio
13. Development of candidate vaccines for protection
14. Hoght output expression of colony stimulating factors
15. Role of 6 k DA early secretory antigenic Target
16. A Mycobacterial secretory protin M TSA-10



Authors: O P Sharma | N P Bali | S P Singh

ISBN: 978-1403-92467-4 | HB

Pages: 1370 | Price: ₹ 595.00

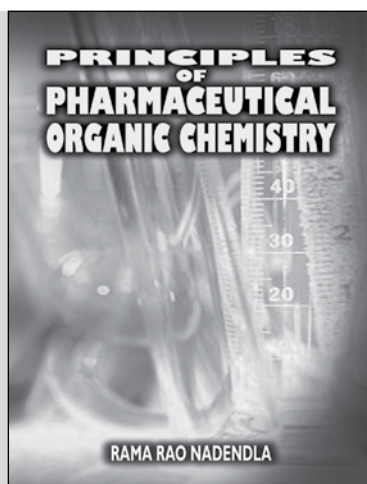
Rights: World

#### About the Book

This is a completely updated comprehensive study kit for students competing for various Medical Entrance Examinations all over India. With the largest compendium of questions, it gives brief discussion of topics in the form of instant notes followed by multiple choice questions. Extensive coverage of Genetics, Cell Biology, Environment and Applications of Biology, which is the most favoured area for question-setters. Special study material for CPMT, Uttar Pradesh; PMT, Uttaranchal; PMT, Rajasthan; PMT, Madhya Pradesh; CET, Karnataka; and UGET Manipal. Special hints for difficult questions besides answers to all questions makes it reader-friendly. Questions on latest examinations are added at the end.

#### Contents

Unit One • The Living World • Unit Two • Unity of Life • Unit Three • Diversity of Life • Unit Four • Organism and Environment • Unit Five • Structure and Function – Plant Life • Unit Six • Structure and Function – Animal Life • Unit Seven • Continuity of Life • Unit Eight • Origin and Evolution of Life • Unit Nine • Application of Biology • Special Section • Appendices • Examination Questions 2003-04



Authors: Rama Rao Nadendla

ISBN: 978-1403-92495-7 | PB

Pages: 436 | Price: ₹ 335.00

Rights: World

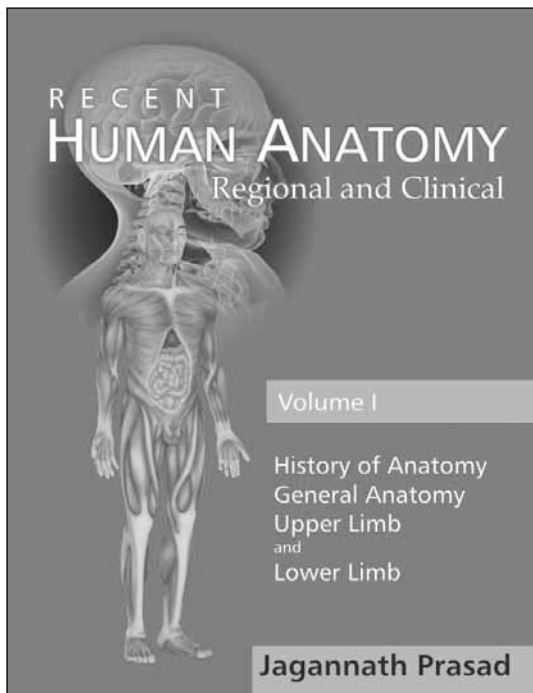
#### About the Book

This book delves into all major concepts in organic pharmaceuticals, includes all the changes, modifications and revisions made to the syllabi of various Indian universities catering to needs of undergraduate students of pharmacy and science.

The book covers fundamentals of organic chemistry and progressively discusses topics that are more complex. Organic reactions are explained concisely with their reaction mechanisms in an easy to understand manner.

#### Contents

Atomic Structure • Chemical Bonding and Hybridisation • Purification and Characterisation of Organic Compounds • Electron Displacement Effects • Reactive Intermediates • Classification and Nomenclature of Organic Compounds • Principles of Isomerism • Chemistry of Alkanes • Chemistry of Alkenes • Chemistry of Alkynes • Chemistry of Dienes • Chemistry of Cycloalkanes • Chemistry of Alkyl halides • Alcohols • Chemistry of Ethers and Epoxides • Chemistry of Benzene and Aromaticity • Chemistry of Aryl Halides • Aromatic Sulphonic Acids • Chemistry of Aldehydes and Ketones • Carboxylic Acids • Chemistry of Carboxylic Acid Derivatives • Chemistry of  $\alpha$ ,  $\beta$ -Unsaturated Carbonyl Compounds • Chemistry of Phenols • Chemistry of Amines • Aromatic Heterocyclic Compounds • Carbohydrates • Phase-Transfer Catalysis • Suggested Readings • Index



## Recent Human Anatomy - Regional and Clinical Vol I

ISBN: 978-9350-59021-8

Pages: 520 | Price: ₹ 585.00 | PB

Rights : World



*Author*

**JAGANNATH PRASAD**

**Jagannath Prasad**, M.S. (Anatomy) and M. Sc. (Anatomy) is the former Professor and Head of Department of Anatomy, Patna Medical College, Patna University, India; Kufa College of Medicine, Kufa University, Kufa, Iraq and College of Medical sciences, UNIMAID, Maiduguri, Nigeria.

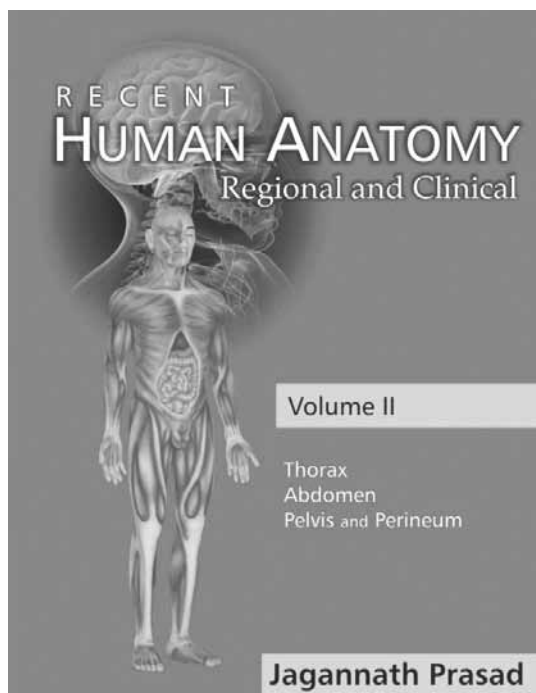
### About the Book

Recent Human Anatomy is presented in three volumes. Volume I covers General Anatomy, Upper limbs and Lower limbs, Volume II discusses Thorax, Abdomen, Pelvis and Perineum, and Volume III delves into Head, Neck and Central Nervous System.

In each volume, there are sections on dissection and gross anatomy. Special sections, viz., development with congenital anomalies, histology with histophysiology and clinical anatomy have been set against coloured background. Each section has been assigned a different-colour background to make it student-friendly and easily identifiable. At the end of each topic, there is a relax box containing the main facts of the topic in an 'easy-to-remember' way.

### Contents

General anatomy • History of Anatomy • General Histology • General Gross Anatomy • General Embryology Upper Limb • Development of Upper Limb • General Features of the Bones of the Upper Limb • Surface Landmarks of the Upper Limb • Particular Features of Bones of the Upper Limb and Ossification of Bones • Pectoral Region • Axilla • Venous and Lymphatic Drainage of the Upper Limb • Back of the Upper Limb • Scapular Region • Arm • Cubital Fossa • Front of the Forearm • PALM (Front of the Hand) • Back of the Forearm and Hand • Joints of the Upper Limb • Sectional Anatomy of Upper Limb • Radiological Anatomy • Origin, Insertion and Attachment of Ligaments in Upper Limb Bones • Appendix Lower Limb • Development of Lower Limb • General Features of the Bones of Lower Limb • Surface Landmarks of the Lower Limb • Particular Features of Bones of the Lower Limb and Ossification of Bones • Front of the Thigh • Venous and Lymphatic Drainage of the Lower Limb • Medial Side of the Thigh • Gluteal Region • Back of Thigh • Popliteal Fossa • Front of the Leg and Dorsum of the Foot • The Lateral Side (Lateral Compartment) of the Leg • Back (Posterior Compartment) of the Leg • Sole • Joints of the Lower Limb • Sectional Anatomy of Lower Limb • Radiological Anatomy of Lower Limb • Origin, Insertion and Attachment of Ligaments in the Lower Limb Bones • Appendix • Index



## Recent Human Anatomy - Regional and Clinical Vol 2

ISBN: 978-9350-59100-0

Pages: 484 | Price: ₹ 585.00 | PB

Rights : World



*Author*

**JAGANNATH PRASAD**

Jagannath Prasad, M.S. (Anatomy) and M. Sc. (Anatomy) is the former Professor and Head of Department of Anatomy, Patna Medical College, Patna University, India; Kufa College of Medicine, Kufa University, Kufa, Iraq and College of Medical sciences, UNIMAID, Maiduguri, Nigeria.

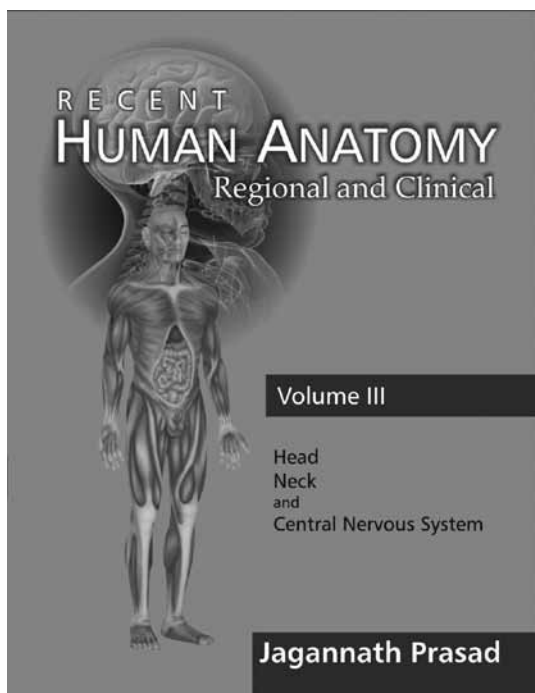
### About the Book

Recent Human Anatomy is presented in three volumes. Volume I covers General Anatomy, Upper limbs and Lower limbs, Volume II discusses Thorax, Abdomen, Pelvis and Perineum, and Volume III delves into Head, Neck and Central Nervous System.

In each volume, there are sections on dissection and gross anatomy. Special sections, viz., development with congenital anomalies, histology with histophysiology and clinical anatomy have been set against coloured background. Each section has been assigned a different-colour background to make it student-friendly and easily identifiable. At the end of each topic, there is a relax box containing the main facts of the topic in an 'easy-to-remember' way.

### Contents

Development and Congenital Anomalies Gross Anatomy including • Relations Histology and Histo-physiology • to give understanding of its function Extensive clinical anatomy • including steps of surgical procedures The appendix includes Sectional Anatomy • Radiological Anatomy with • Radiological Techniques Review of Histology with • Histological Techniques Review of Development, • Vascular Supply and Nerve Supply.



## Recent Human Anatomy - Regional and Clinical Vol 3

ISBN: 978-9350-59158-1

Pages: 356 | Price: ₹ 585.00 | PB

Rights : World



*Author*

JAGANNATH PRASAD

Jagannath Prasad, M.S. (Anatomy) and M. Sc. (Anatomy) is the former Professor and Head of Department of Anatomy, Patna Medical College, Patna University, India; Kufa College of Medicine, Kufa University, Kufa, Iraq and College of Medical sciences, UNIMAID, Maiduguri, Nigeria.

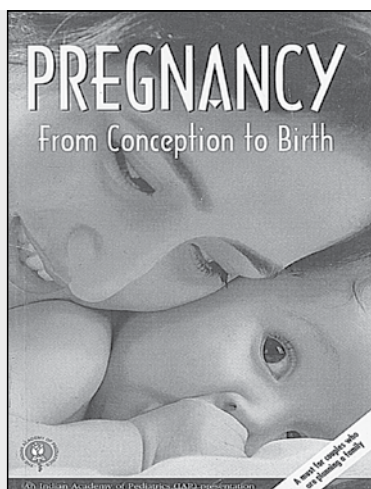
### About the Book

Recent Human Anatomy is presented in three volumes. Volume I covers General Anatomy, Upper limbs and Lower limbs, Volume II discusses Thorax, Abdomen, Pelvis and Perineum, and Volume III delves into Head, Neck and Central Nervous System.

In each volume, there are sections on dissection and gross anatomy. Special sections, viz., development with congenital anomalies, histology with histophysiology and clinical anatomy have been set against coloured background. Each section has been assigned a different-colour background to make it student-friendly and easily identifiable. At the end of each topic, there is a relax box containing the main facts of the topic in an 'easy-to-remember' way.

### Contents

Development of Pharyngeal Arches • Bones of the Head and Neck • Scalp and Face • Parotid Region, the Neck and Cervical Fascia • Back of the Neck • Posterior Triangle of the Neck • Cranial Cavity • Vertebral Canal • Temporal and Infra-temporal Regions • Anterior Triangle of the Neck • Submandibular Region • Ductless Glands • Vessels of the Neck • Nerves of the Neck • Pre-vertebral and Para-vertebral Regions • Digestive System of the Head and Neck • Respiratory System of the Head & Neck System of Special Senses • Orbit and Eyeball • Sectional Anatomy of Head and Neck • Radiological Anatomy Head & Neck • Appendix • Development of Brain and Spinal Cord • Gross Anatomy of Brain • Base of the Brain • Cerebral Hemisphere • White Matter of Cerebral Hemisphere • Diencephalon • Basal Nuclei (Basal Ganglia) of Cerebral Hemisphere • Brain Stem & Cerebellum • Ventricles of the Brain and Fluid • Spinal Cord • Tracts of the Brain Sectional Anatomy of Brain • Radiological Anatomy of Brain & Spinal Cord • Appendix



Authors: M R Lokeshwar

ISBN: 978-1403-90926-8 | PB

Pages: 288 | Price: ₹ 275.00

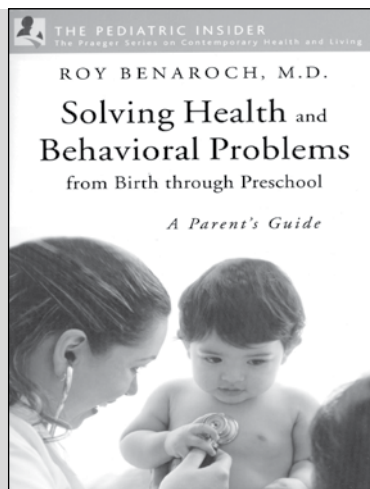
Rights: World

#### About the Book

This book is a complete handbook on pregnancy covering conception, prenatal labour and postnatal care. It is valuable guide for prospective parents and expectant mothers. The format of the book in the question-answer forms makes the book simpler, more direct and comprehensive.

#### Contents

Planning Pregnancy • Beginning of Life – Conception • Confirmation, Signs and Symptoms of Pregnancy • Understanding the Fetus • Discomforts of Pregnancy • Psychological Changes • Antenatal Check-ups • Healthy Pregnancy • How to Make Yourself Feel Good • Multiple Pregnancy • Common Illnesses during Pregnancy • Complication in Pregnancy • Birth Defects • Window into the Womb • Where to Have the Baby • Ready to Go • The Most Wonderful Day – Giving Birth • Coping with Labor • Stages of Labor • Pre-term Labor – Labor Before Expected Date • Fetal Monitoring and Assisted Delivery • Twin Deliveries • Caesarian Delivery • Stillbirth • After Delivery Care • Know Your Newborn • Back Home with Babe in Arms • Caring for Your Baby • Sleep • Feeding Your Baby • Low Birth Weight and Pre-term Babies • Your Baby's Development • Thanks Giving • List of Contributors • Glossary



Authors: Roy Benaroch

ISBN: 978-0275-99347-4 | PB

Pages: 208 | Price: ₹ 299.00

Rights: India

#### About the Book

All parents have faced the frustration of seeing their child sick and not knowing whether to rush to the doctor, offer over-the-counter remedies, or do little and wait to see if the problem passes. So too we have all faced those times when our children seem well but will not cooperate with behaviors involving eating, sleeping, or other activities. Emory University Pediatrician Roy Benaroch wrote this guide to help parents understand the most common childhood maladies and “misbehaviors,” and know what the best options are for action. Himself the father of three, Benaroch shares the insights of a medically-trained parent, telling us what he would do if his own child developed each malady. The topics addressed range from abdominal pain, ear infections and vomiting to issues with eating, sleeping and toilet training. Benaroch includes the most recent research in each area, and shares vignettes from his own practice, and his own household.

## A Textbook on Child Development

*Author:* Rajammal P Devadas | N Jaya  
 ISBN: 978-0333-90459-6 | PB  
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*Author:* Rajammal P Devadas | N Jaya  
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 ISBN: 978-0333-92455-6 | PB  
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*Author:* Maj. Gen A K Varma | Mori  
 ISBN: 978-0333-92454-9 | HB  
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*Authors:* Manohar J Joshi  
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*Author:* Maj. Gen A K Varma  
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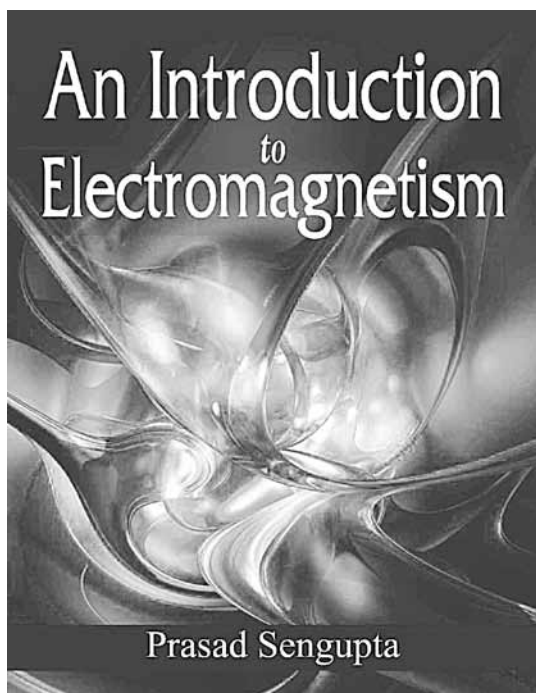
*Author:* Maj. Gen A K Varma  
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*Author:* Mathew Varghese  
 ISBN: 978-0333-93819-5 | PB  
 Pages: 286 | Price: ₹ 990.00



## An Introduction to Electromagnetism

ISBN: 978-0230-32187-8

Pages: 168 | Price: ₹ 395.00 | PB

Rights : India



*Author*

**PRASAD SENGUPTA**

Dr. Prasad Sengupta joined the West Bengal Educational Service in 1976; served many government colleges in West Bengal, including Presidency College for the last sixteen years of his service, retiring in 2008.

### About the Book

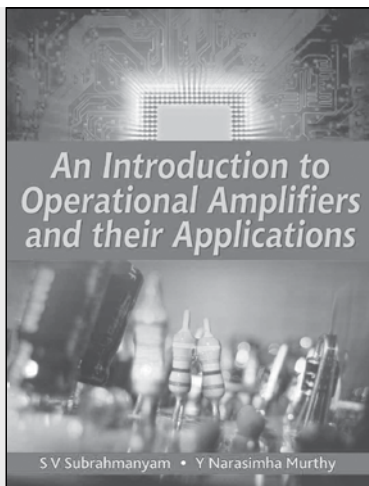
This book has been primarily designed for undergraduate students of physics; however a part of the book caters to the need of engineering students as well. Streamlined to the essential topics, each point has been presented with the utmost lucidity, making learning easier, even on occasions when a learner has to help himself. A scientific planning of Parts and Chapters is likely to help students and teachers both.

Problems given in the book are well-chosen. The solved problems highlight the true significance of the text material, while problems given as Exercise are so selected that even the 'problem-shy' students can hope to work out a good number of them.

An important feature of this book is the Addendum, which reveals the role of the Theory of Relativity in electromagnetism to the reader who is going to be initiated to this discipline for the first time. Such a lucid primer is very helpful for those who aspire to step into the higher physics.

### Contents

Part One Electrostatics: Prefatory Note • Electric Field and Coulomb's Law • Electrostatic Potential • The Dirac Delta: A Primer • Electric Multipoles • Energy Consideration • Electrostatics in Dielectrics • Energy and Force Considerations • Part Two Magnetostatics: Prefatory Note • Magnetic Fields in Vacuum • Magnetic Field in a Material • Part Three Electromagnetism Induction: Prefatory Note • Basic Principles • D.C. Transients • Basics of Alternating Currents • Alternating Currents (contd.) • Part Four Maxwell's Theory: Prefatory Note • Maxwell's Equations • Reflection and Refraction of Electromagnetic Waves • Guided Waves • Radiation, Scattering and Dispersion • Index  
Anatomy of Brain • Base of the Brain • Cerebral Hemisphere • White Matter of Cerebral Hemisphere • Diencephalon • Basal Nuclei (Basal Ganglia) of Cerebral Hemisphere • Brain Stem & Cerebellum • Ventricles of the Brain and Fluid • Spinal Cord • Tracts of the Brain Sectional Anatomy of Brain • Radiological Anatomy of Brain & Spinal Cord • Appendix



Author: S.V. Subrahmanyam |  
Y Narasimha Murthy

ISBN: 978-0230-33003-0 | PB  
Pages: 384 | Price: ₹ 295.00  
Rights: World

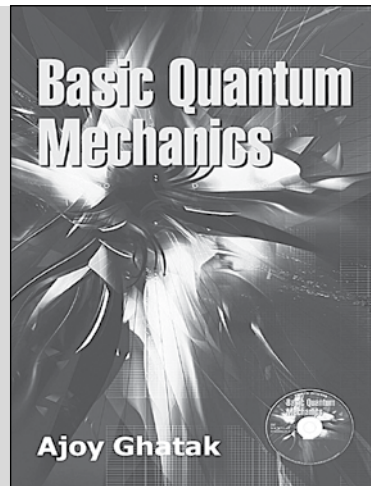
#### About the Book

An Introduction to Operational Amplifiers and their Applications is intended to be used by students taking a basic course on operational amplifiers and covers basic to advanced topics in a simple easy-to-understand manner. The objective of the book is to assist the reader in understanding the theory and applications of operational amplifiers. The stress throughout the book is on basic concepts and their practical applications.

This book will be of substantial help to the professional engineers, physicists, and the technicians as well. It can very conveniently be used for 'in-service training courses', training programmes, and competitive examinations.

#### Contents

Op Amp Basics • The Practical Op Amp: D.C. Parameters • The Practical Op Amp: A.C. Characteristics • Op Amp: General Linear Applications • Waveform Generators • Special Amplifiers • Active Filters • Non-Linear and Digital Applications • Op Amp Laboratory Experiments



Author: Ajoy Ghatak

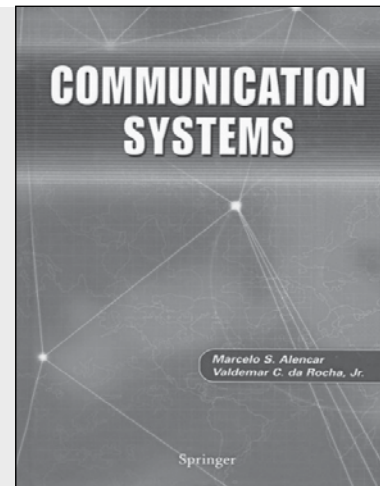
ISBN: 978-0230-63916-4 | HB  
Pages: 332 | Price: ₹ 295.00  
Rights: World

#### About the Book

This undergraduate textbook attempts to present the basic concepts in quantum mechanics with emphasis on application in areas like atomic and molecular spectroscopy, quantum well structures, nuclear physics, astrophysics, solid state physics, etc.

#### Contents

Introduction • Particles & Waves and the Uncertainty Principle • Time-Dependent Schrödinger Equation • The Free Particle Problem • The Time-Independent Schrödinger Equation: Some General Theorems and Continuity Conditions • Some Exact Solutions of the One-Dimensional Schrödinger Equation: The One-Dimensional Infinitely Deep Potential Well and the Finite Well • Particle in a Three-Dimensional Box • The Linear Harmonic Oscillator • Understanding the Concept of Eigenvalues • One-Dimensional Barrier Transmission Problems • Tunnelling Calculations and Applications • Angular Momentum and the Spherical Harmonics • Spherically Symmetric Potentials: The Hydrogen Atom • Vibration Rotation Spectra of Diatomic Molecules • The Spin-Half Problem Stern-Gerlach Experiment, Larmor Precession and Magnetic Resonance • Fine Structure and Effects of Magnetic Field • The Double Well Problem • The Multiple Quantum Well Problem: The Matrix Method • The Multiple-Barrier Problems Using the Matrix Method • Continuously Varying Potentials: One-Dimensional Problems • More Examples of Spherically Symmetric Potentials • Appendices • Index



Author: Marcelo S Alencar |  
Valdemar C da Rocha, Jr

ISBN: 978-8181-28716-8 | PB  
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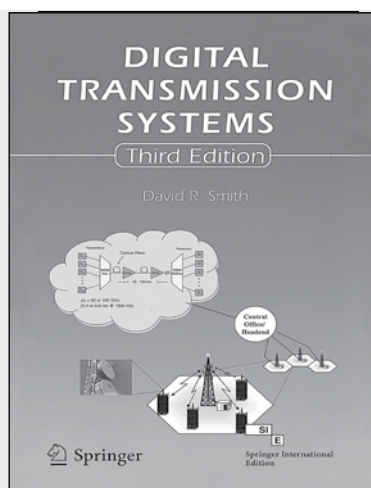
#### About the Book

Communication Systems is as an introductory textbook, presenting Fourier transform, convolution, and definitions of autocorrelation and power spectral density. It also introduces concepts of probability, random variables, and stochastic processes and their applications to the analysis of linear systems.

Innovatively, the text treats the modulation process using stochastic processes as well as covers amplitude modulation, quadrature modulation, angle modulation, mobile cellular systems, propagation channels and more. Quantization and coding of analog signals is also treated, as well as speech coding.

#### Contents

1. Signal Analysis
2. Probability Theory and Random Processes
3. Speech Coding
4. Amplitude Modulation
5. Quadrature Amplitude Modulation
6. Angle Modulation
7. Propagation Channels
8. Carrier Transmission
9. Mobile Cellular Telephony



Authors: David R. Smith

ISBN: 978-8184-89048-8 | PB

Pages: 828 | Price: ₹ 585.00

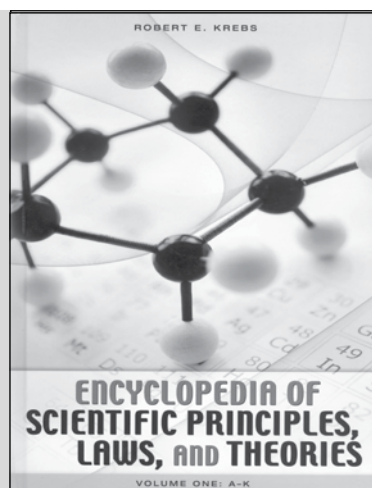
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#### About the Book

Digital Transmission Systems, Third Edition, is a comprehensive overview of the theory and practices of digital transmission systems used in digital communication. This new edition has been completely updated to include the latest technologies and newest techniques in the transmission of digitized information as well as coverage of digital transmission design, implementation and testing

#### Contents

- New material on error correction codes, multiple access, digital modulation digital subscriber lines, cable modems, mobile wireless, wide area networks, and optical networks
- Up-to-date industry standards and practices--including voice/video coding, SONET/SDH, DWDM, ATM, broadband wireless access, network synchronization, and network management--are described and interpreted
- Expanded problem sets (totaling over 300) at the end of each chapter for review and practice
- All chapters have been updated with particular emphasis given to fiber optics, wireless and networks
- The book is heavily illustrated with tables, figures and an abundance of examples and reference to actual system. Examples are from common carriers, manufacturers and the author's commercial experience. Telecommunications terms and defined and explained when first introduced.
- Practicing engineers in the field of communication systems, managers and technical personnel in the IT industry, and students of electrical and communications engineering will find this an authoritative state-of-the-art book.



Authors: Robert E Krebs

ISBN: 978-0313-34006-2 | HB

Pages: 324 | Price: ₹ 999.00

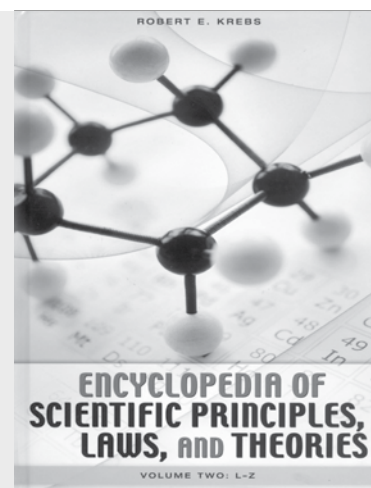
Rights: World

#### About the Book

What is a scientific theory? How is it different from a law or a principle? And what practical is it? Science students, especially those new to studying the sciences, ask these questions everyday about these essential parts of a science education. To supports these students, the Encyclopedia of Scientific Principles, Laws, and Theories is designed to be an easy-to-understand, accessible, and accurate description of the most famous scientific concepts, principles, laws, and theories that are known in the areas of astronomy, biology, chemistry, geology, mathematics, medicine, meteorology, and physics. The encyclopedia contributes to the scientific literacy of students and the general public by providing them with a comprehensive but not overwhelming source of those scientific concepts, principles, laws and theories that impact every facet of their daily lives.

#### Contents

- Preface • Definitions • The Entries: A to K



Author: Robert E Krebs

ISBN: 978-0313-34007-9 | HB

Pages: 356 | Price: ₹ 999.00

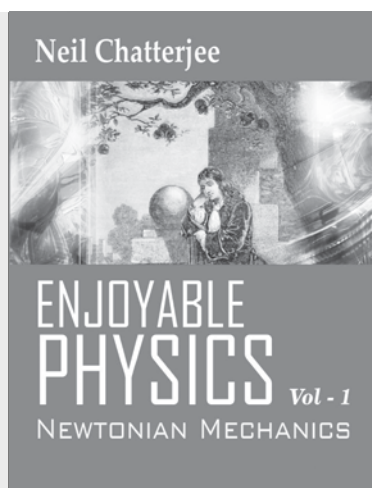
Rights: World

#### About the Book

What is a scientific theory? How is it different from a law or a principle? And what practical is it? Science students, especially those new to studying the sciences, ask these questions everyday about these essential parts of a science education. To supports these students, the Encyclopedia of Scientific Principles, Laws, and Theories is designed to be an easy-to-understand, accessible, and accurate description of the most famous scientific concepts, principles, laws, and theories that are known in the areas of astronomy, biology, chemistry, geology, mathematics, medicine, meteorology, and physics. The encyclopedia contributes to the scientific literacy of students and the general public by providing them with a comprehensive but not overwhelming source of those scientific concepts, principles, laws and theories that impact every facet of their daily lives.

#### Contents

- Glossary • Appendix A: Alphabetical Listing of Entries by Scientific Discipline • Appendix B: Nobel Laureates in Chemistry (1901-2007) • Appendix C: Nobel Laureates in Physics (1901-2007) • Appendix D: Nobel Laureates in Physiology or Medicine (1901-2007) • Bibliography • Index



Author: Neil Chatterjee

ISBN: 978-0230-63903-4 | PB

Pages: 866 | Price: ₹ 525.00

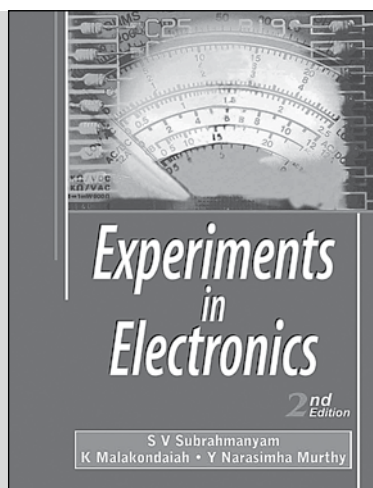
Rights: World

#### About the Book

Enjoyable Physics, Volume 1 is the first part of a four-part series. The book deals with the fundamentals of Newtonian Mechanics, as it is taught at +2 level and first-year undergraduate level in Indian schools and colleges. These are the most decisive years in a student's career because they appear in IITJEE, AIEEE and a host of other All India Entrance examinations in Science, Engineering and Medical streams during this period.

#### Contents

- Physical Quantities and Their Measurement
- Vectors • Motion in One and Two Dimensions • Newton's Laws of Motion • Friction
- Circular Motion • Work and Energy • Impulse, Collision, and Centre of Mass • Rotational Mechanics • Statics of Rigid Bodies • Gravitation • Appendix • Index



Author: S V Subrahmanyam |  
K Malakondaiah | Y Narasimha Murthy

ISBN: 978-0230-33071-9 | HB

Pages: 440 | Price: ₹ 385.00

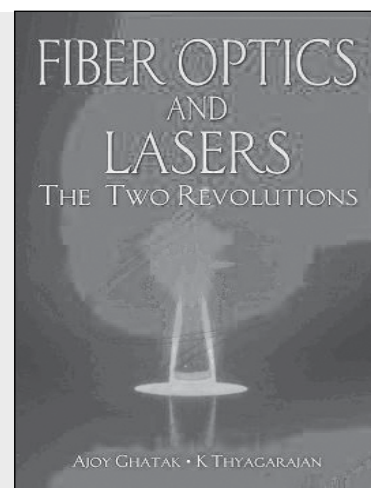
Rights: World

#### About the Book

Experiments in Electronics is a text lab manual useful for undergraduate students in engineering and for those taking up Electronics or Instrumentation as a special subject in M Sc (Physics). The book covers experiments on passive elements including a simple experiment on Fourier analysis. The physics of active devices, Power supply systems, Amplifiers and Oscillators are dealt with in detail. Experiments on the versatile Operational Amplifiers and Design & Construction of a Digital Laboratory, experiments using CRO, standard laboratory instruments and experiments on communication electronics are presented in a student-friendly manner. Special ICs like Norton op amp, transconductance op amp (OTA), phase locked loop, analog multiplier ICs constitute one complete chapter.

#### Contents

- Passive Elements • Active Devices • Power Supply Systems • Amplifiers • Oscillators • Operational Amplifier • Digital Electronics • Experiments with Cathode Ray Oscilloscope • Electronic Instruments • Communications • Special ICs – Applications • Microcontroller Based Experiments



Author: Ajoy Ghatak | K Thyagarajan

ISBN: 978-1403-93011-8 | PB

Pages: 248 | Price: ₹ 365.00

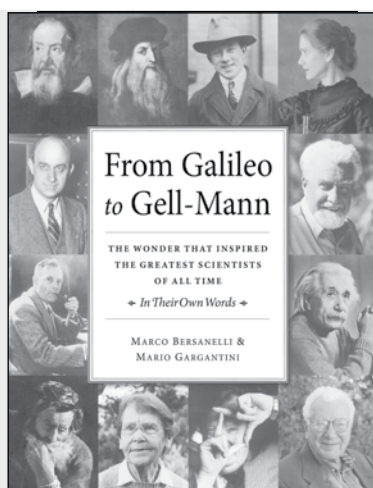
Rights: World

#### About the Book

The invention of the laser in 1960 provided mankind with a unique source of light, which is highly directional, spectrally pure and extremely bright. The development of such a unique source of light ushered in a large number of applications in many diverse areas such as communications, medicine, defence, etc. Besides, lasers have found numerous commercial uses and the number of such applications is still rising. Today, light wave communication using hair-thin optical fibers of glass has truly revolutionised communication and has been primarily responsible for the Internet explosion.

#### Contents

- Preface • List of Abbreviations • Important Milestones • Introduction • Light Waves • Carrier Wave Communication • The Optical Fiber • Attenuation in Optical Fibers • Pulse Dispersion in Optical Fibers • Fiber-Optic Communication Systems • Erbium-Doped Fiber Amplifier (EDFA) • Raman Fiber Amplifier (RFA) • Fiber Bragg Gratings (FBG) • Fiber-Optic Components • Non-linear Effects in Optical Fibers • Optical Fiber Sensors • Basics of Lasers • Properties of Laser Beams • Some Important Applications of Lasers • Some Laser Systems • Bibliography • Index



Authors: Marco Bersanelli | Mario Gargantini

ISBN: 978-0230-33038-2 | PB

Pages: 334 | Price: ₹ 699.00

Rights: World

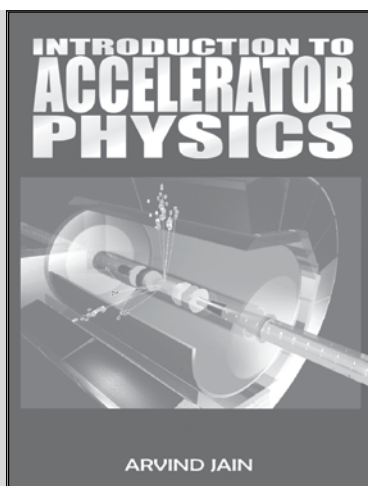
#### About the Book

In *From Galileo to Gell-Mann*, Marco Bersanelli and Mario Gargantini have gathered writings from over one hundred of the world's brightest scientific minds on the question of "Why?" - specifically, why did these great scientists commit themselves so ardently to life in the laboratory? What was it that kept them dedicated to their research endeavors for years on end?

This new anthology is a goldmine of insight that previously could only be found hidden deep within thousands of scattershot pages of footnotes from out-of-print journals, rare books, and unpublished papers. Among the most remarkable similarities that emerge when one considers together these writings from the likes of Albert Einstein, Gregor Mendel, Maria Curie, and others, is the sense of wonder and outright awe at what the study of the natural world can reveal.

#### Contents

Preface by Duccio Macchetto • Introduction • Wonder • Observation • Experiment • Discovery • Certainty • Sign • Purpose • Acknowledgements • Appendix A. Biographical Notes • Appendix B. Glossary • Notes • Index



Authors: Arvind Jain

ISBN: 978-1403-93201-3 | HB

Pages: 320 | Price: ₹ 540.00

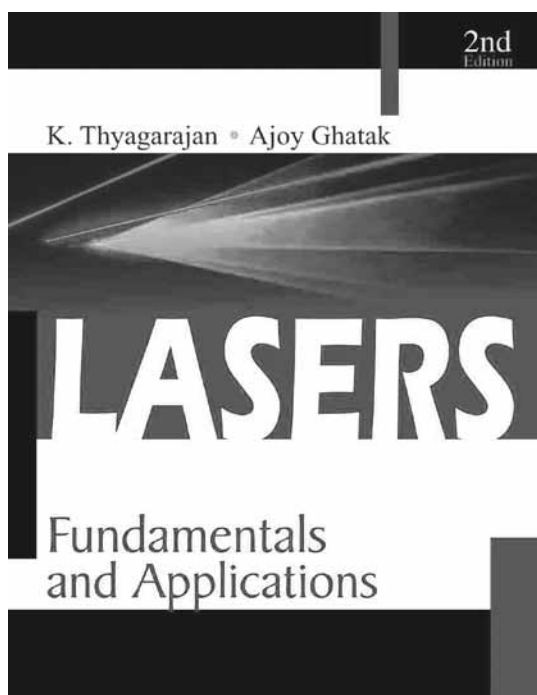
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#### About the Book

This is an introductory text on charged particle accelerators for beginners, who have not been exposed earlier to the subject of accelerator physics. The subject has been developed from a very elementary level up to a reasonably advanced level. This book has primarily been written for students, teachers and researchers.

#### Contents

Introduction • The Linac • The Synchrotron • Intersecting Storage Ring • Equations of Motion • Betatron Oscillations • Resonances • Quadrupole Lenses • Phase Space • Beam Transport Systems • Orbit Stability Using Matrix Techniques • Twiss Parameters • Synchrotron Oscillations • Synchrotron Radiation Sources • Chromaticity • Instabilities • Linear Accelerators • Sector Focused Cyclotrons • The Role of Superconductivity in Accelerators



## Lasers-Fundamentals & Theory, 2/e

ISBN: 978-0230-32231-8

Pages: 602 | Price: ₹ 395.00 | PB

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*Author*

K. THYAGARAJAN | AJAY GHATAK

K. Thyagarajan obtained his MSc from Delhi University and PhD from IIT Delhi, and is currently Professor of Physics at IIT Delhi. He has held Visiting positions at various research laboratories and universities in France, USA, Canada, Hong Kong and Japan.

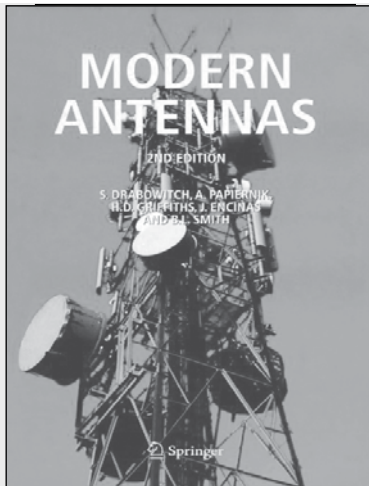
Ajoy Ghatak obtained his MSc from Delhi University and PhD from Cornell University. He has recently retired from IIT Delhi as Professor of Physics.

### About the Book

Lasers: Fundamentals and Applications provides a coherent presentation of the basic physics behind the way lasers work, their important characteristics and some of their most important applications. Ever since the invention of the laser in 1960, lasers have assumed tremendous importance in the fields of science, engineering and technology because of their special characteristics and diverse uses in basic research and countless technological applications. This book serves as an important textbook for students pursuing undergraduate and graduate courses on lasers and their applications, and is expected to help the student understand the basic principles of lasers and how to apply the concepts found within to practical situations.

### Contents

Part I: Fundamentals of Lasers • Introduction • Basic Optics • Elements of Quantum Mechanics • Einstein Coefficients and Light Amplification • Laser Rate Equations • Semiclassical Theory of Laser • Optical Resonators • Vector Spaces and Linear Operations: Dirac Notation • Quantum Theory of Interaction of Radiation field with Matter • Properties of Lasers • Some Laser Systems • Doped Fiber Amplifiers and Lasers • Semiconductor Lasers • Optical Parametric Oscillators • Part II: Some Important Applications of Lasers • Spatial Frequency Filtering and Holography • Laser-Induced Fusion • Lightwave Communications • Lasers in Science • Lasers in Industry • Part III: Nobel Lectures • Production of Coherent Radiation by Atoms and Molecules • Semiconductor Lasers • Quantum Electronics • Passion for Precision • Index



**Authors:** S Drabowitch | A Papiernik | H D Griffiths | J Encinas | B L Smith  
**ISBN:** 978-8181-28702-1 | PB  
**Pages:** 710 | **Price:** ₹ 585.00  
**Rights:** World

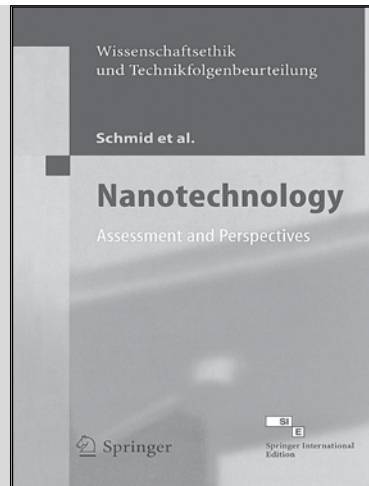
#### About the Book

Modern Antennas, 2nd edition provides a complete and rigorous treatment of the theory and practice of modern antenna design and use. Written by a team of experienced engineers, the text is presented in a simple and understandable manner which guides the reader progressively through the stages of the design process. The book is aimed at practising engineers and graduate-level students, and includes numerous examples of practical designs applied to real engineering situations.

The second edition contains significant new material on antennas for mobile communications, and on signal processing antennas for applications in communications and radar.

#### Contents

• Fundamentals of electromagnetism • Radiation • Antennas in transmission • Receiving antennas • Antennas of simple geometry • Printed antennas • Large antennas and microwave antennas • Primary feeds • Axially symmetric systems • Focussed systems • Arrays • Antenna measurements



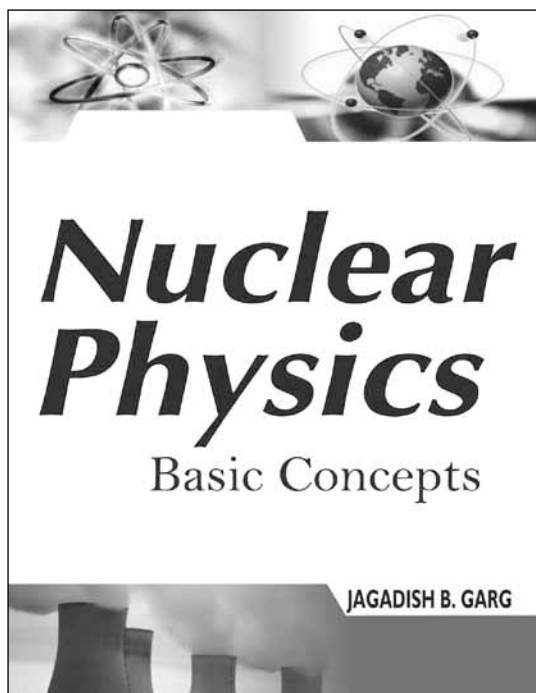
**Authors:** Schmid et al  
**ISBN:** 978-8184-89051-8 | HB  
**Pages:** 520 | **Price:** ₹ 485.00  
**Rights:** World

#### About the Book

Nanotechnology. Assessment and Perspective “tackles the subject of Nanotechnology in a new and unique way. Accounting for the fact that the differences between classical academic disciplines disappear at the nanoscale, a truly interdisciplinary approach is chosen. Authors from areas like chemistry, physics, biology and toxicology as well as from economics, philosophy and the industrial sector treat the matter in a unified manner, not only giving isolated statements within their own realm, but also linking them to the other experts’ contributions.

#### Contents

- Introduction and summaries
- Nanotechnology and Philosophy of science
- Nanotechnology- Technical know how
- Field of Research and Technology
- Commercial Perspective of Nanotechnology
- Risk Assessment and Risk Management
- Ethical Aspect of Nanotechnology
- Knowledge Transfer in Nanotechnons



## Nuclear Physics - Basic Concepts

ISBN: 978-0230-32272-1

Pages: 248 | Price: ₹ 265.00 | PB

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Author

JAGADISH B. GARG



Jagdish B. Garg is professor of physics at the N Y state university of Albany, where he teaches undergraduate courses in general physics, contemporary astronomy and graduate level course in nuclear physics.

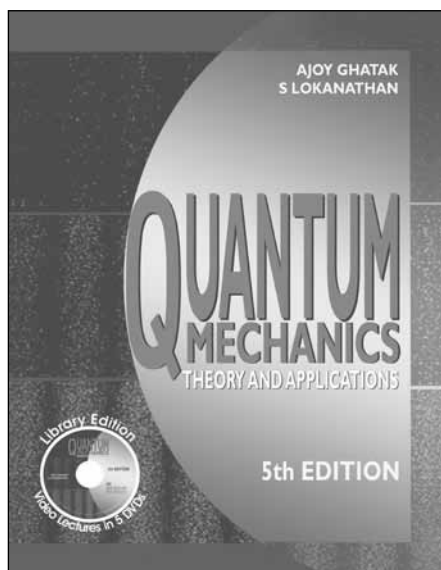
### About the Book

This book discusses, clearly and concisely, basic concepts of nuclear physics, which are covered in physics and nuclear engineering courses offered in colleges and universities, at postgraduate and undergraduate level.

The main feature of this book is that it gives a coherent treatment of each topic of nuclear physics in the proper order. Beginning with the general properties of nuclei, the book further delves into the nature of nuclear force, as determined from the properties of deuteron and from the two-body interactions of  $(n, n)$ ,  $(n, p)$  and  $(p, p)$  pairs. It discusses the nuclear structure in terms of different nuclear models such as shell, collective vibration and rotation, unified and liquid drop. These models are applicable in different mass regions of nuclei. A complete chapter is dedicated to  $\alpha$ ,  $\beta$  and  $\gamma$ -ray modes of decay of unstable nuclei. Different types of nuclear reactions, viz., compound nucleus formation, direct reactions, such as stripping, knock out, pick up reactions, photonuclear reactions, nuclear fission and nuclear fusion, etc., induced by  $n$ ,  $p$ ,  $d$ ,  $t$ ,  $\alpha$ - particles are covered in enough detail. A brief discussion of application of nuclear physics to other fields, such as biomedical, nuclear energy, industry, crime detection and astrophysics is provided in a separate chapter. Conceptual problems related to each chapter are discussed in the last chapter.

### Contents

- Basic Properties of Nuclei • Nuclear Force from Deuteron Problem • Nucleon-nucleon Interaction • Nuclear Structure • Radioactivity
- Nuclear Reactions • Nuclear Physics Application • Appendix • Index



## Quantum Mechanics, 5/e



ISBN: 978-9350-59197-0  
Pages: 794 | Price: ₹ 995.00 | HB

Rights : World

*Author*  
Ajoy Ghatak | S Lokanathan

Ajoy Ghatak - Emeritus Professor of Physics at IIT Delhi.

S Lokanathan - Retired Professor of Physics, University of Rajasthan, Jaipur.

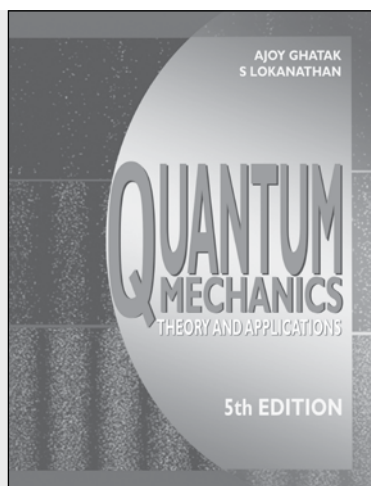


### About the Book

This is the new edition of the best selling textbook on Quantum Mechanics. It presents the basic concepts in quantum mechanics with emphasis on applications in areas like nuclear physics, astrophysics, solid-state physics, quantum optics, and so on. Each chapter is substantiated with a number of numerical problems. The solutions to most of these problems have been given at the end of the chapter. Apart from a new prologue, the additions are new topics such as wave-particle duality and uncertainty principle, Schrodinger equation, and much more.

### Contents

Mathematical Preliminaries • The Dirac Delta Function • Fourier Transforms • Basic Quantum Mechanics • Particles and Waves and the Uncertainty Principle • Time Dependent Schrodinger Equation • Propagation of Wave Packets and Concept Group Velocity • Bound State Solutions of the Schrodinger Equation • Linear Harmonic Oscillator: I • One-dimensional Barrier Transmission Problems • Angular Momentum I – The Spherical Harmonics • Spherically Symmetric Potentials • Dirac's Bra and Ket Algebra • Linear Harmonic Oscillator II • Angular Momentum II • Experiments with Spin Half Particles • Angular Momentum III • The Double-well Potential and the Kronig-Penney Model • The JWKB Approximation • Addition of Angular Momenta: The Clebsch-Gordan Coefficients • Time Independent Perturbation Theory, Effects of Magnetic Field • The Variational Method • The Helium Atom and the Exclusion Principle • Some Select Topics, Elementary Theory of Scattering, Time Dependent Perturbation Theory • The Semi-classical Theory of Radiation and its Interaction with Matter • Relativistic Theory • Many-Electron Atoms • Appendices • Index



Authors: Ajoy Ghatak | S Lokanathan

ISBN: 978-1403-92341-7 | PB

Pages: 794 | Price: ₹ 435.00

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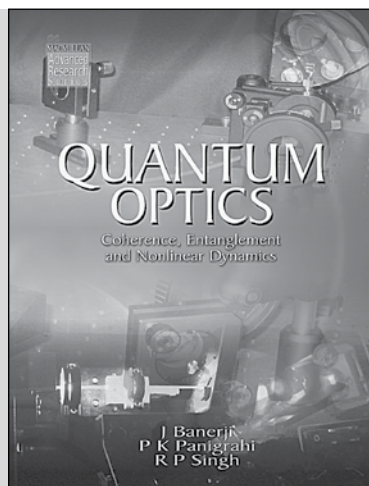
#### About the Book

This is the new edition of the best selling textbook on Quantum Mechanics. It presents the basic concepts in quantum mechanics with emphasis on applications in areas like nuclear physics, astrophysics, solid-state physics, quantum optics, and so on.

#### Contents

Mathematical Preliminaries • The Dirac Delta Function • Fourier Transforms • Basic Quantum Mechanics • Particles and Waves and the Uncertainty Principle • Time Dependent Schrodinger Equation • Propagation of Wave Packets and Concept Group Velocity • Bound State Solutions of the Schrodinger Equation • Linear Harmonic Oscillator: I • One-dimensional Barrier Transmission Problems • Angular Momentum I – The Spherical Harmonics • Spherically Symmetric Potentials • Dirac's Bra and Ket Algebra • Linear Harmonic Oscillator II • Angular Momentum II • Experiments with Spin Half Particles • Angular Momentum III • The Double-well Potential and the Kronig-Penney Model • The JWKB Approximation • Addition of Angular Momenta: The Clebsch-Gordan Coefficients

• Time Independent Perturbation Theory, Effects of Magnetic Field • The Variational Method • The Helium Atom and the Exclusion Principle • Some Select Topics, Elementary Theory of Scattering, Time Dependent Perturbation Theory • The Semi-classical Theory of Radiation and its Interaction with Matter • Relativistic Theory • Many-Electron Atoms • Appendices • Index



Author: J Banerji | P K Panigrahi | R P Singh

ISBN: 978-0230-63403-9 | HB

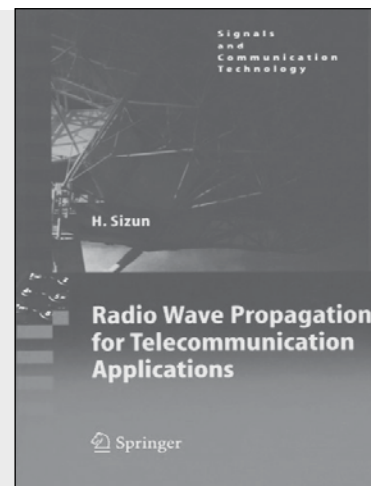
Pages: 318 | Price: ₹ 750.00

Rights: World

#### About the Book

These are the proceedings of ISQC-2006.

In recent times, quantum optics has witnessed spectacular developments in both the theoretical and experimental fronts. Applications ranging from information storage and retrieval, implementation of quantum logic gates in multilevel systems, control of decoherence and entanglement, optical control of cold atoms leading to the test of exotic concepts of physics are but a few of the exciting developments. This book contains articles from experts giving a flavour of these interesting and stimulating areas of research.



Author: H Sizon

ISBN: 978-8181-28721-2 | HB

Pages: 434 | Price: ₹ 385.00

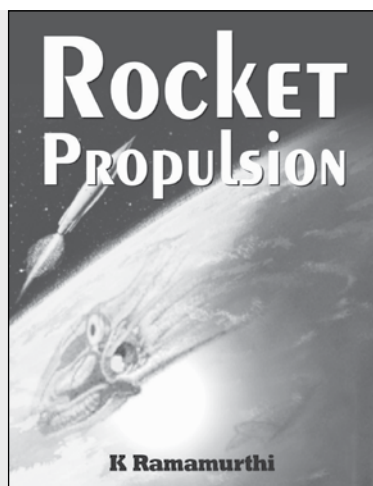
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#### About the Book

This book thoroughly describes the physical mechanisms of electromagnetic wave propagation in the terrestrial and near space environment. It thus provides advanced students and development engineers the background for the design of reliable telecommunication systems in the radiofrequency domain.

#### Contents

• Introduction to the Propagation of Radio Waves • The Earth's Atmosphere • Electromagnetic Waves and Propagation Characteristics • Ionospheric Links • Terrestrial Fixed Links • Satellite Links • Mobile Radio Links



Author: K Ramamurthi

ISBN: 978-0230-32873-0 | PB

Pages: 352 | Price: ₹ 365.00

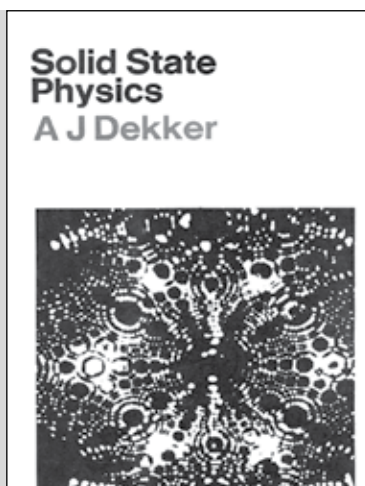
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#### About the Book

This book deals with the fundamental aspects of rockets and the current trends in rocket propulsion. The book starts with a description of motion in space, the requirements of rockets for placing spacecrafts in different orbits about the Earth and escaping from the gravitational pull of celestial bodies. The rocket equation is subsequently formulated, following examples of the motion of a sled from change of momentum and movement of giant squid in deep seas. The operating principles, performance prediction procedures, design aspects and problem areas of the different types of rockets are discussed in detail.

#### Contents

Preface • Motion In Space: Requirements For Orbit • Theory Of Rocket Propulsion • Rocket Nozzle And Performance • Chemical Propellants • Solid Propellant Rockets • Liquid Propellant Rockets • Liquid Monopropellant Rockets • Hybrid Rockets • Combustion Instability • Electrical Rockets • Nuclear Rockets And Advanced Rockets • Index



Authors: A J Dekker

ISBN: 978-0333-91833-3 | PB

Pages: 556 | Price: ₹ 325.00

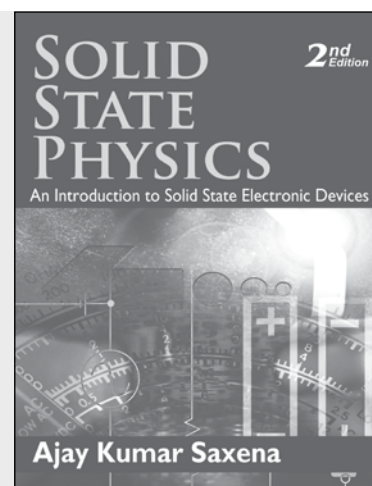
Rights: World

#### About the Book

This book emphasizes the physical principles underlying the theoretical interpretation of the basic crystalline, electric and magnetic properties of solids. Its self-contained chapters are widely used as a reference and provide invaluable grounding for physicists and metallurgists.

#### Contents

The Crystalline State • The Specific Heat of Solids and Lattice Vibrations • Some Properties of Metallic Lattices • Some Properties of Simple Alloys • Lattice Energy of Ionic Crystals • Dielectric and Optical Properties of Insulators • Ionic Conductivity and Diffusion • Ferroelectrics • Free Electron Theory of Metals • The Band Theory of Solids • The Conductivity of Metals • The Electron Distribution in Insulators and Semiconductors • Nonpolar Semiconductors • Rectifiers and Transistors • Electronic Properties of Alkali Halides • Luminescence • Secondary Electron Emission • Diamagnetism and Paramagnetism • Ferromagnetism, Antiferromagnetism, and Ferrimagnetism • Magnetic Relaxation and Resonance Phenomena • Appendix • Index



Authors: Dr Ajay Kumar Saxena

ISBN: 978-0230-63997-3 | PB

Pages: 464 | Price: ₹ 300.00

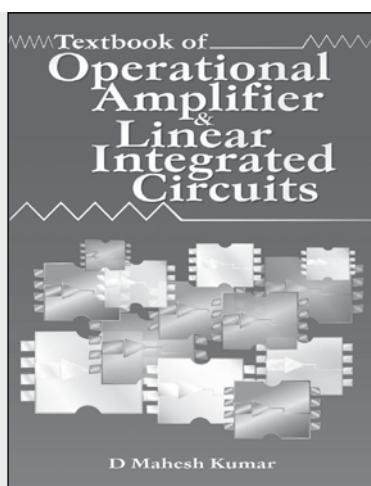
Rights: World

#### About the Book

This book has been written keeping in mind the guidelines prescribed in the UGC curriculum. It aims to serve as a textbook for MSc (Physics) students of all Indian universities. An attempt has been made in the book to incorporate latest developments in the subjects like Quasi-crystals, Quantum-wells, Super lattices, Quantum Hall effects and Super-conductors. The book deals with symmetry groups, imperfections in solids, lattice vibrations, band theory, Fermi surfaces, magnetic properties, semiconductors (including basic electronic devices), dielectrics and superconductivity (including the recently discovered high T<sub>c</sub> superconductors). Emphasis has been laid on the physical concepts of the various topics covered. Solved examples have been interspersed in the text to clarify the underlying physical concepts.

#### Contents

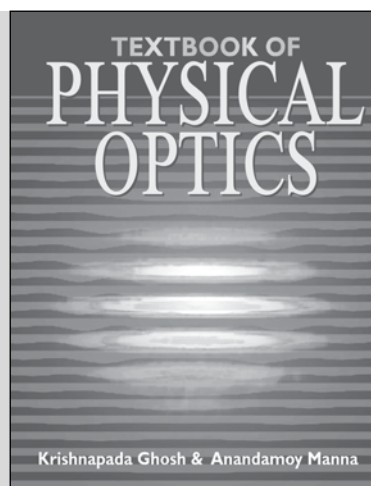
Crystal Structure • X-Ray Diffraction and Reciprocal Lattice • Crystal Imperfections • Bonding in Solids • Lattice Vibrations and Thermal Properties • Transport Properties • Band Theory • Fermi Surfaces • Semiconductors and Semiconductor Devices • Magnetic Properties • Dielectrics, Plasmons, Polarons and Polaritons • Super Conductivity



**Author:** D Mahesh Kumar  
**ISBN:** 978-14039-2952-5 | HB  
**Pages:** 432 | **Price:** ₹ 170.00  
**Rights:** World

#### About the Book

The advent and evolution of operational amplifiers have made revolutionary impact in the field of electronics. This book provides a brief description of fundamental and basic concepts of the operational amplifier. It covers the differences between the ideal op-amp and practical op-amp. The book also discusses the configuration of the op-amp & its applications and advantages. The main applications covered are Integrator, Differentiator, Summing Amplifier, Instrumentation Amplifier and their advantages and applications with the diode like Halfwave & Fullwave Rectifier, Bridge Amplifier, etc. It also deals with the applications of the 555 timer and its designing procedure.



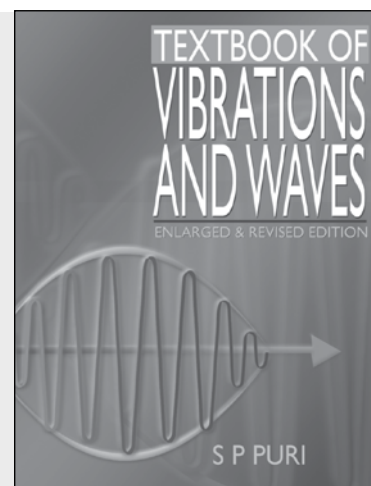
**Author:** Late Krishnapada Ghosh | Anandamoyanna  
**ISBN:** 978-1403-92987-7 | PB  
**Pages:** 360 | **Price:** ₹ 325.00  
**Rights:** World

#### About the Book

Textbook of Physical Optics is a classic text on fundamentals of modern physical optics covering experimental and theoretical evolution of understanding of phenomenon of light. The book systematically develops the mathematical background to the study of physical optics. It covers the entire prescribed course of Interference, Diffraction and Polarisation of Light. The book discusses all types of grating and interferometers with emphasis on the general theory of grating, which comprises two-step, zigzag plane surfaces (the so-called echelette grating). From the general theory, theories of plane grating of the reflecting and refracting type, and echelon grating have been derived. The law of distribution of energy in the Michelson interferometer (giving the structure of spectral lines) has been deduced from the elementary theory of wave optics. Interference of polarised light has also been described in the book.

#### Contents

- Introduction • Two Beam Interference Of Light • Multibeam Interference Of Light • Fresnel Class Of Diffraction Phenomenon • Fraunhofer Class Of Diffraction Phenomena • Polarisation • Interference Of Polarised Light



**Author:** S P Puri  
**ISBN:** 978-1403-92403-2 | HB  
**Pages:** 492 | **Price:** ₹ 280.00  
**Rights:** World

#### About the Book

This enlarged and revised book, adopting an integrated approach to wave phenomena, covers the total requirements of syllabi for undergraduate students in physics and engineering in Indian universities. Solved examples have been added throughout, in addition to the end-chapter problems. An appendix on non-linear oscillations has also been added. Examples from contemporary fields are drawn to illustrate a particular phenomenon. The style of presentation is lucid and direct and sufficient mathematical details are included so as to sustain the interest.

#### Contents

- Introduction • Simple Harmonic Free Vibrations • Damped Simple Harmonic Vibrations • Forced Vibrations and Resonance • Coupled Oscillations • Waves in Physical Media • Waves at Boundaries – Reflection and Transmission • Transmission of Signals: Wave Packet and Group Velocity, Dispersion • Electromagnetic Waves • Fourier Analysis and Applications • Polarisation • Interference • Scalar Diffraction Theory • Matter Waves • Appendices

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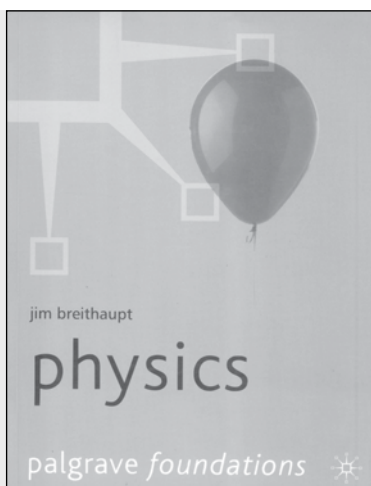
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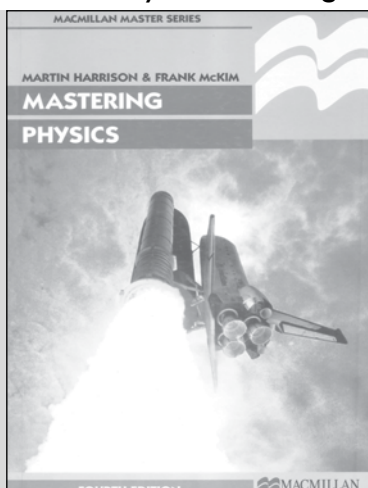
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#### About the Book

JIM BREITHAUP Tis Head of Science and Maths at Wigan and Leigh College.

#### Contents

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Acknowledgements, Units and  
Measurements/PART ONE: WAVES/PART  
TWO: PROPERTIES OF MATERIALS/  
PART THREE: MECHANICS/PART FOUR:  
ELECTRICITY/PART FIVE: FIELDS/PART  
SIX: ATOMIC AND NUCLEAR PHYSICS/  
PART SEVEN: FURTHER PHYSICS.



Authors: Keighley

ISBN: 978-140394-420-7 | PB

Price: £ 4.99

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#### About the Book

This new edition of Mastering Physics has been completely updated and rewritten to give all the information needed to learn and master the essentials of physics. It is a self-contained, clearly explained course for individual study or classroom use which requires no prior knowledge. The book is highly illustrated throughout to show the importance of physics in the natural world, as well as in such fields as athletics, engineering, medicine and music. Questions and examples are also included throughout.

- Contents
- Handling Materials
- Strength of Solids
- Particles in Motion
- Motion
- Force and Motion
- Work, Energy, Power and Momentum
- Gravity
- Energy Demand and Usage
- Machines and Energy Converters
- Transfer of Heat Energy
- Changes in Heat Content
- Waves
- Sound Waves
- The Sounds We Hear
- Light
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- Making Use of Waves
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- Using Resistors
- Magnetic Forces
- Applications of the Motor Effect
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- Using Radioactivity.

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