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SCIENCE

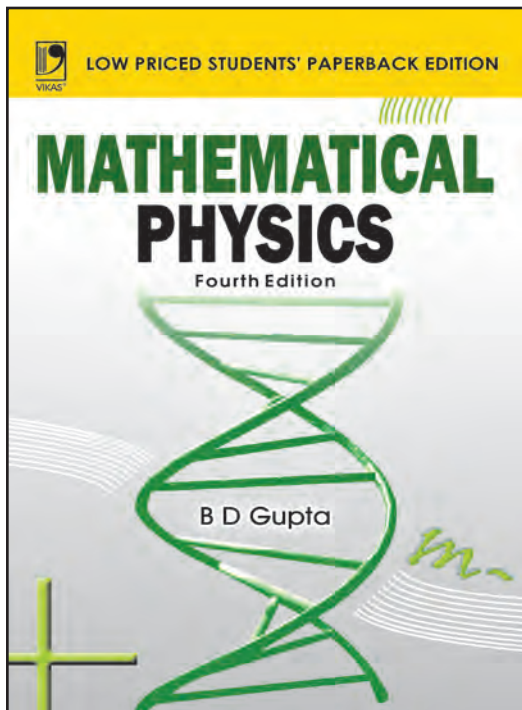
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Mathematical Physics, (LPSPE), 4e

B D Gupta

About the Book

Mathematics is an essential ingredient in the education of a student of mathematics or physics or a professional physicist, indeed in the education of any professional scientist or engineer. The purpose of Mathematical Physics is to provide a comprehensive study of the mathematics underlying theoretical physics at the level of graduate and postgraduate students and also have enough depth for others interested in higher level mathematics relevant to specialized fields. It is also intended to serve the research scientist or engineer who needs a quick refresher course in the subject.

The Fourth Edition of the book has been thoroughly revised and updated keeping in mind the requirements of students and the latest UGC syllabus.

Key Features

- Exhaustive treatment of the subject
- Systematic and logical arrangement of topics
- Rigorous explanation of each theorem to facilitate comprehension
- Worked out examples to clarify concepts
- Additional problems from university papers for more practice

New in this Edition

- Additions in the chapters on Vectors, Matrices, Tensors, Complex Analysis, Differential Equations, Harmonics, Beta, Gamma and Error Functions
- Extra problems in every chapter
- Updated and enhanced appendix

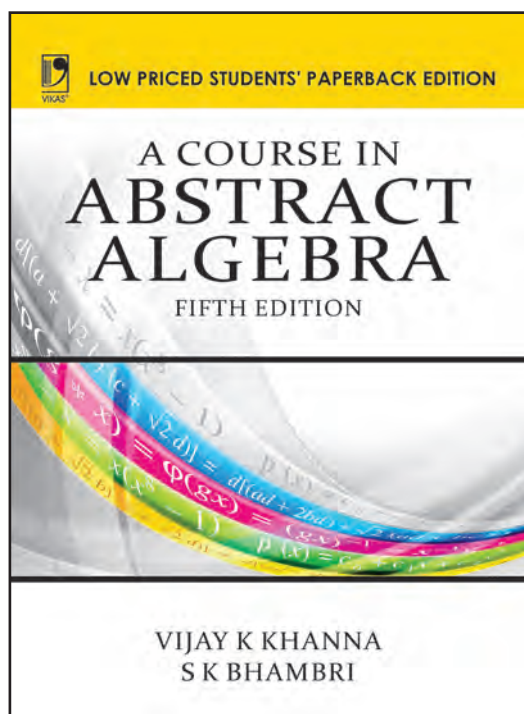
ISBN: 9789354535062 | Price: ₹ 895 | Pages: 1456 | Size: 6.25" X 9.5" (Paperback)

Contents

- | | | |
|------------------------------------|---|---|
| 1. Vectors | 7. Differential Equations | 13. Maxwell's Electromagnetic Field Equations |
| 2. Matrices | 8. Harmonics (with Special, Functions) | 14. Special Theory of Relativity |
| 3. Tensors | 9. Fourier's Series, Integrals and Transforms | 15. Statistical Probability |
| 4. Group Theory | 10. The Laplace Transforms | • Appendices |
| 5. Complex Variables | 11. Hankel Transforms | • Index |
| 6. Beta, Gamma and Error Functions | 12. Diffusion, Wave and Laplace's Equations | |

B D Gupta

He retired as Associate Professor and Head of Mathematics Department, Vardhaman College, Bijnor (Rohilkhand University). A prolific writer on mathematics and applied mathematics, he has written many books such as Classical Mechanics, Mathematical Statistics, Topology, Numerical Analysis, Mathematical Methods with Statistical Functions and Trigonometry. Dr Gupta has taught and guided students for more than forty years.



A Course in Abstract Algebra, 5e

V K Khanna & S K Bhambri

About the Book

The book starts with a brief introduction to results from Set theory and Number theory. It then goes on to cover Groups, Rings, Fields and Linear Algebra. The topics under groups include Subgroups, Finitely generated abelian groups, Group actions, Solvable and Nilpotent groups. The course in ring theory covers Ideals, Embedding of rings, Euclidean domains, PIDs, UFDs, Polynomial rings and Noetherian (Artinian) rings. Topics in field include Algebraic extensions, Splitting fields, Normal extensions, Separable extensions, Algebraically closed fields, Galois extensions, and Construction by ruler and compass. The portion on linear algebra deals with Vector spaces, Linear transformations, Eigen spaces, Diagonalizable operators, Inner product spaces, Dual spaces, Operators on inner product spaces etc. The theory has been strongly supported by numerous examples and worked-out problems. There is also a plenty of scope for the readers to try and solve problems on their own.

The book is designed for undergraduate and postgraduate students of mathematics. It can also be used by those preparing for various competitive examinations.

Market: Primarily for BSc, MSc. Also useful for Competitive Exams.

New in this Edition

- A full section on operators in inner product spaces.
- Complete survey of finite groups of order up to 15 and Wedderburn theorem on finite division rings.
- Addition of around one hundred new worked-out problems and examples.
- Alternate and simpler proofs of some results.
- A new section on quick recall of various useful results at the end of the book to facilitate the reader to get instant answers to tricky questions.

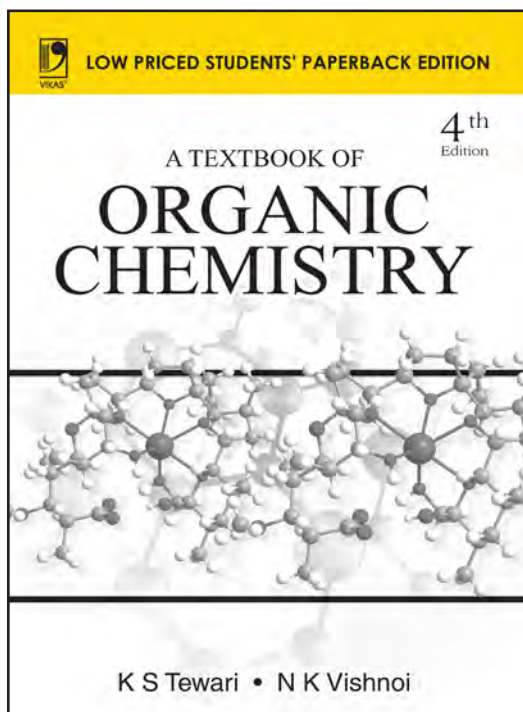
ISBN: 9789354534911 | Price: ₹ 695 | Pages: 880 | Book Size: 6.75" X 9.5" (Paperback)

Contents

- | | | |
|--|---|------------------------------------|
| 1. Preliminaries | 6. Group Actions, Solvable and Nilpotent Groups | 11. Linear Transformations |
| 2. Groups | 7. Rings | 12. Eigen Values and Eigen Vectors |
| 3. Normal Subgroups, Homomorphisms, Permutation Groups | 8. Homomorphisms and Embedding of Rings | 13. Inner Product Spaces |
| 4. Automorphisms and Conjugate Elements | 9. Euclidean and Factorization Domains | 14. Fields |
| 5. Sylow Theorems and Direct Products | 10. Vector Spaces | 15. More on Fields |
| | | • Index |

Vijay K Khanna was with Kirori Mal College, University of Delhi, where he taught UG and PG students for over 43 years. His other publications include Lattices & Boolean Algebras, Solid Geometry and Business Mathematics, all published by Vikas.

S K Bhambri was also with Kirori Mal College, University of Delhi, where he taught UG and PG students for 42 years. He is co-author of 'Business Mathematics', published by Vikas.



A Textbook of Organic Chemistry, 4e

K S Tewari & N K Vishnoi

About the Book

In this edition, the subject matter of this well-known book has been reorganized with integration of the study of aliphatic and aromatic compounds on the basis of functional groups, laying emphasis on the mechanistic aspects. Special emphasis has been laid on the mechanism and electronic interpretation of the reactions of different classes of compounds, bringing out the salient points of difference in the properties of aliphatic and aromatic compounds. With its very comprehensive coverage, the book will not only be useful to the UG and PG students of chemistry but also IIT/NEET aspirants.

Salient Features

- Reorganized as per the guidelines of UGC at UG level, as per the CBCS.
- Includes most topical 'Energy in Biosystems' and latest research findings like Polanyi-Hammond postulates and Curtin-Hammett principle, along with mechanisms like Favorskii, Baeyer-Villiger, Birch, McMurry, Wittig, Stobbe and Darzen. Introduces Biodegradable and conducting plastics, and the benefits of Green Chemistry
- Integrates the study of aliphatic and aromatic compounds. The objective is to make the mechanistic aspects of chemical reactions easy to understand and appreciate why aliphatics and aromatics with same functional group behave differently.

Benefits

- Reaction mechanisms explained in step-wise progression for total clarity.
- Huge number of MCQs and Descriptive questions
- Regularly revised since last 40 years

Market:

Primarily for B.Sc Chemistry, M.Sc Chemistry.
Also useful for IIT/NEET aspirants.

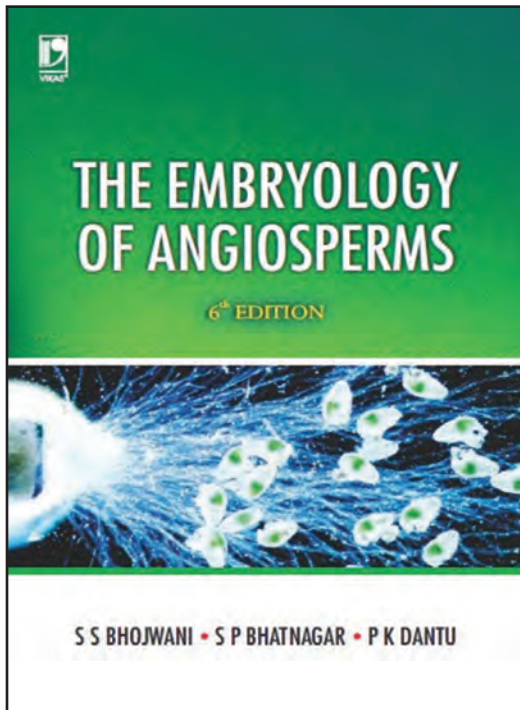
ISBN: 9789354534928 | Price: ₹ 950 | Pages: 1430 | Size: 6.25" X 9.5" (Paperback)

Contents

Unit-I: Structure and Bonding	Unit-XI: Ethers and Epoxides	Unit-XXI: Carbohydrates
Unit-II: Reactions Mechanism	Unit-XII: Aldehydes and Ketones	Unit-XXII: Amino Acids and Nucleic Acids
Unit-III: Stereochemistry of Organic Compounds	Unit-XIII: Carboxylic Acids & Their Derivatives	Unit-XXIII: Oils, Fats and Detergents
Unit-IV: Alkanes and Cycloalkanes	Unit-XIV: Organic Compounds of Nitrogen	Unit-XXIV: Synthetic Polymers
Unit-V: Alkenes, Dienes, Cycloalkenes and Alkynes	Unit-XV: Polynuclear Hydrocarbons	Unit-XXV: Synthetic Dyes
Unit-VI: Arenes and Aromaticity	Unit-XVI: Spectroscopy	Unit-XXVI: Miscellaneous Topics
Unit-VII: Alkyl and Aryl Halides	Unit-XVII: Organometallic Compounds	Appendices-I-III
Unit-VIII: Electromagnetic Spectra	Unit-XVIII: Organosulphur Compounds	Index
Unit-IX: Alcohols	Unit-XIX: Heterocyclic Compounds	
Unit-X: Phenols,	Unit-XX: Organic Synthesis Via Enolates	

K S Tewari is a former Head of the Department of Chemistry, Christ Church College, Kanpur. He taught organic chemistry to undergraduate and postgraduate students for more than three decades.

N K Vishnoi had relocated to England under HSMP programme of the UK government after serving as associate professor in Chemistry, Christ Church College, Kanpur for more than three decades. He has also authored Advanced Practical Organic Chemistry (Vikas).



The Embryology of Angiosperms, 6e

S S Bhojwani, S P Bhatnagar & P K Dantu

About the Book

For the last 40 years, the book has stood the test of time due to the authors' zeal to update it regularly with inputs from latest developments in the field.

Since the last revision of the book, the methods used to study plant embryology have changed radically. Powerful modern biological techniques are now being applied to understand the developmental aspects and genetic and molecular bases of embryological processes. It has become possible to generate tissue specific mutants by T-DNA insertional mutagenesis, use of green fluorescent protein probes for live imaging of growing cells and tissues and to analyze gene expression in few-celled structures, such as early stages of embryo, and constituent cells of the male and female gametophytes. These techniques, combined with the development of high resolution confocal laser scanning microscopy, have provided non-invasive methods to view live processes, such as pollen tube growth in the pistil and double fertilization under in situ conditions.

The book serves the students of Botany, Agriculture and Forestry for their regular courses like BSc (General and Hons) and MSc, as well as competitive examinations.

The book has been translated into Japanese and Korean languages.

Key Features

- Covers important topics like development and structure of male and female gametophytes, pollination, fertilization, sexual incompatibility, development of endosperm and embryo, polyembryony, apomixis and seed development
- Describes embryology in relation to taxonomy and experimental and applied embryology. Judicious use of tables and figures to depict important data and information
- Updated as per the new developments in the study of plant embryology in the post-genomic era. This edition includes discussion of genetic and molecular bases of embryological processes.

Market: Primarily for MSc. Also useful for BSc.

ISBN: 9789325981294 | Price: ₹ 495 | Pages: 388 | Size: 6.25" X 9.5" (Paperback)

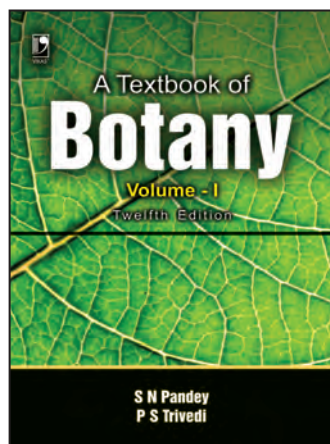
Contents

1. Statistics	7. Female Gametophyte	13. Polyembryony
2. Flower	8. Pollination	14. Apomixis
3. Microsporangium	9. Fertilization	15. Seed
4. Male Gametophyte – Development	10. Sexual Incompatibility	16. Embryology in Relation to Taxonomy
5. Male Gametophyte – Morphology	11. Endosperm	17. Experimental and Applied Embryology
6. Megasporangium	12. Embryo	

S S Bhojwani has 50 years of teaching and research experience. Apart from universities in India, he worked in or had affiliations from the UK, Canada, New Zealand and Japan.

S P Bhatnagar retired as Professor of Botany, University of Delhi. As a CAS Senior Visitor of the British Council he worked at the Botany School, Cambridge University.

P K Dantu is Professor of Botany at Dayalbagh Educational Institute, Agra. He has 30 years of teaching and research experience in the field of plant biotechnology and reproductive biology of angiosperms.



A Textbook of Botany Volume - I, 12e

S N Pandey & P S Trivedi

New in This Edition

- Improved categorization of bacteria, cyanobacteria, archaeobacteria, fungi, viruses and algae.
- Modern classification of fungi and algae.
- Study of fungal diversity based on the development of molecular methods.
- Life cycle and genetics of Neurospora.
- Molecular methods in which algae and fungi are exploited by man

Salient Features

- Detailed coverage of bacteria, viruses, fungi, algae and lichens
- Dedicated chapter on plant pathology
- Includes topics from latest international research
- Profusely illustrated with diagrams, appropriately labelled
- Exercises at the end of the chapters

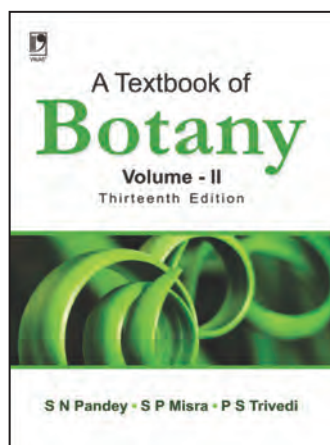
ISBN: 9789325992337 | Price: ₹ 795 | Pages: 572 | Size: 6.75" X 9.5" (Paperback)

Contents

1. Classification of Living Organisms into Major Groups, 2. Bacteria, 3. Mycoplasmas, 4. Archaeobacteria, 5. Viruses, 6. An Introduction to Fungi, 7. Phylum Myxomycota, 8. Phylum Plasmodiophoromycota, 9. Phylum Oomycota, 10. Saprolegnia, 11. Achlya, 12. Pythium, 13. Phytophthora, 14. Albugo, or Cystopus, 15. Phylum Chytridiomycota, 16. Synchytrium, 17. Phylum Zygomycota, 18. Rhizopus and Mucor, 19. Phylum Ascomycota, 20. Saccharomyces (The Yeast), 21. Aspergillus, 22. Penicillium, 23. Sphaerotheca, 24. Claviceps, 25. Peziza, 26. Morchella, 27. Neurospora, 28. Phylum Basidiomycota, 29. Puccinia, 30. Ustilago, 31. Agaricus, 32. Mitosporic Fungi (Fungi Imperfecti), 33. Alternaria, Cercospora, Fusarium, 34. Colletotrichum, 35. General Discussion, 36. Lichens, 37. Elementary Plant Pathology—General Aspects, 38. Some Important Plant Diseases, 39. An Introduction to Algae, 40. Classification of the Algae, 41. Division Cyanophyta, 42. Division Prochlorophyta, 43. Division Glaucophyta, 44. Division Rhodophyta, 45. Batrachospermum, 46. Polysiphonia, 47. Heterokontophyta, 48. Xanthophyceae, 49. Bacillariophyceae, 50. Phaeophyceae, 51. Ectocarpus, 52. Dictyota, 53. Sargassum and Fucus, 54. Division Dinophyta, 55. Division Euglenophyta, 56. Division Chlorophyta, 57. Chlamydomonas, Pandorina, Eudorina and Volvox, 58. Chlorella, Pediatrum and Hydrodictyon, 59. Ulothrix, 60. Cladophora, 61. Stigeoclonium, Draparnaldiopsis and Coleochaete, 62. Oedogonium, 63. Spirogyra, Zygnema and Cosmarium, 64. Division Charophyta, 65. General Discussion, 66. Algae and Biotechnology

S N Pandey, formerly, Senior Reader, Department of Botany, Christ Church College, University of Kanpur, has 38 years of experience of teaching botany to undergraduate and postgraduate students.

P S Trivedi, formerly, Head, Department of Botany, BND College, Kanpur, distinguished himself as a teacher. In his 40-year career, he taught varied topics of botany, including pteridophyta, to undergraduate and postgraduate students.



A Textbook of Botany Volume - II, 13e

S N Pandey, S P Misra & P S Trivedi

New in This Edition

- Life cycles of Osmunda, Adiantum and Gleichenia added.
- Topics like "Bryophyta as Indicators of Pollution" and "Peristome in Bryales" added.

Salient Features

- Detailed coverage of bryophytes, pteridophytes and gymnosperms
- Dedicated chapter on palaeobotany
- Includes topics from latest international research
- Profusely illustrated with diagrams, appropriately labelled
- Exercises at the end of the chapters

ISBN: 9789325994041 | Price: ₹ 775 | Pages: 742 | Size: 6.75" X 9.5" (Paperback)

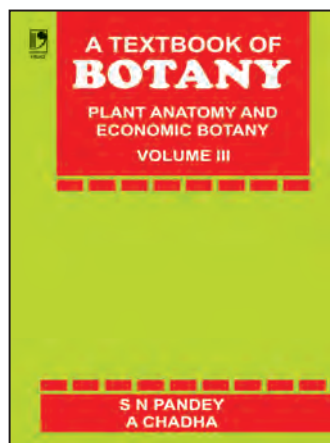
Contents

Part-I: Bryophyta (The Amphibians of Plant Kingdom): 1. Introduction to Bryophyta, 2. Classification of Bryophyta, 3. Sphaerocarpaceae (The Bottle-Hepatics), 4. Marchantiales (The Chambered-Hepatics), 5. Monocleales (The Giant Thallose Hepatics), 6. Metzgeriales (The Multiform Thallose Hepatics), 7. Jungermanniales (The Scale Mosses), 8. Calobryales (The Moss-Like Hepatics), 9. Takakiales, 10. Anthocerotales (The Hornworts), 11. Andreaeales (The Lantern Mosses), 12. Sphagnales (The Peat Mosses), 13. Tetraphidales (The Four-Toothed Mosses), 14. Polytrichales (The Hair Cap Mosses), 15. Buxbaumiales (The Bug Mosses), 16. Funariales (The Joint-Toothed Mosses), 17. Archidiales (The Large-Spored Mosses), 18. Gametophyte (The Plant Body), 19. Sporophyte, 20. General Discussion, **Part-II: Pteridophyta (Vascular Plants Without Seeds):** 1. Introduction to Pteridophyta, 2. Division Psilophyta, 3. Rhynia, 4. Psilotum, 5. Division Lycophyta, 6. Lycopodium, 7. Isoetes, 8. Selaginella, 9. Division Sphenophyta, 10. Equisetum, 11. Division Filicophyta, 12. Ophioglossum, 13. Osmunda, 14. Pteridium, 15. Adiantum, 16. Gleichenia, 17. Marsilea, 18. Azolla, 19. General Discussion, **Part-III: Gymnosperms and Palaeobotany:** 1. Introduction to Gymnosperms, 2. Classification, 3. Cycas, 4. Pinus, 5. Gnetum, 6. Ephedra, 7. General Discussion, 8. Palaeobotany

S N Pandey, formerly, Reader, Department of Botany, DAV College, University of Kanpur, has to his credit over 30 books, 50 research papers published in Indian and foreign refereed journals.

S P Misra, formerly, Senior Reader, Department of Botany, Christ Church College, University of Kanpur, has 38 years of experience of teaching botany to undergraduate and postgraduate students.

P S Trivedi, formerly, Head, Department of Botany, BND College, Kanpur, distinguished himself as a teacher. In his 40-year career, he taught varied topics of botany, including pteridophyta, to undergraduate and postgraduate students.



A Textbook of Botany Volume - III

S N Pandey & A Chadha

About the Book

The book is divided into two parts. Part I deals with PLANT ANATOMY covering all its topics beginning from roots to seeds and fruits. The text matter has been kept concised and lucid while considering almost every important example. The diagrams are simple but close to naturality. Topics such as Nodal Anatomy, Anatomy of Floral parts, Fruit wall and seed coat, Ecological Anatomy and Systematic Plant Anatomy will certainly be of larger interest. Part II deals with ECONOMIC BOTANY and offers exhaustive up-to-date literature enriched with comparative tables, on all aspects of the primary necessities of man viz. food, shelter and clothing. Economically important plants and plant byproducts such as dyes, tannins, oils, resins etc. have been dealt separately. The coloured photo plates will further augment the value of the book.

The book will be fully suitable to students appearing for various universities and competitive examinations like IAS, PCS PMT etc. The volume will be considerably useful in the Middle-East and South-East Asian countries by virtue of its authoritative coverage.

Salient Features

The book is in two parts. Plant botany covers all topics beginning from roots to seeds and fruits. The part on Economic botany offers exhaustive literature enriched with comparative tables, on all primary necessities of man, viz. food, shelter and clothing. Economically important plants and plant byproducts such as dyes, tannins, oils, resins etc. have also been dealt with. The book is fully suitable for students appearing for various universities and competitive examinations like IAS, PCS, PMT. Very clear diagrams help understanding.

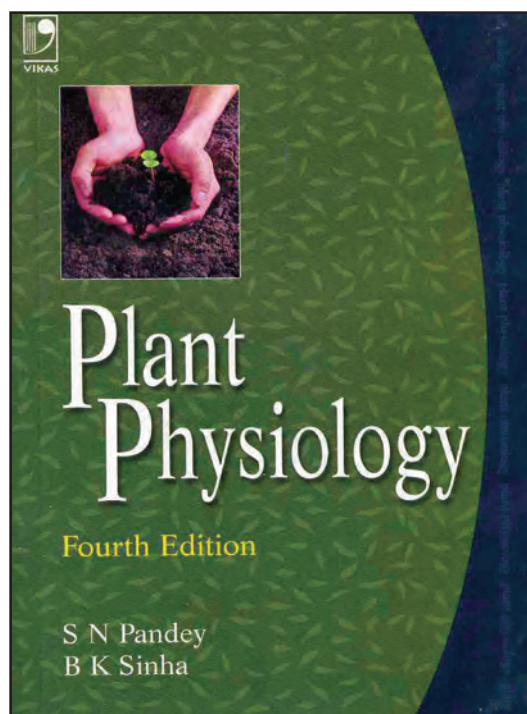
ISBN: 9780706986853 | Price: ₹ 660 | Pages: 652 | Size: 6.25" X 9.5" (Paperback)

Contents

Part One: Plant Anatomy: 1. The Plant Body, 2. The Cell, 3. Cell Cycle and Cell Division, 4. Meristematic Tissues, 5. Permanent Tissues, 6. Tissue System, 7. The Stem-Primary Structure, 8. The Root-Primary Structure, 9. The Leaf, 10. Secondary Growth, 11. Abscission and Healing of Wounds, 12. Anomalous Secondary Growth, 13. Nodal Anatomy, 14. Anatomy of Floral Parts, 15. Fruit Wall and Seed Coat, 16. Ecological Anatomy, 17. Systematic Plant Anatomy, **Part Two: Economic Botany:** 18. Introduction (Importance of Plants), 19. Cereals and Millets, 20. Legumes and Nuts, 21. Vegetables, 22. Fruits, 23. Spices and Condiments, 24. Fibres, 25. Wood and Wood Products, 26. Fatty Oils and Vegetable Oils, 27. Essential Oils, 28. Papers and Pulps, 29. Sugars and Starches, 30. Beverages, 31. Tannins and Dyes, 32. Rubber and Latex, 33. Gums and Resins, 34. Fumitories and Masticatories, 35. Medicinal Plants

S N Pandey, formerly, Senior Reader, Department of Botany, Christ Church College, University of Kanpur, has 38 years of experience of teaching botany to undergraduate and postgraduate students.

A Chadha has been teaching at the S.N. Sen P.G. College, Kanpur.



Plant Physiology, 4e

S N Pandey & B K Sinha

About the Book

Plant Physiology lucidly explains the operational mechanisms of plants based on up-to-date literature and with the help of numerous illustrations. In addition to the theoretical aspects, experiments have been incorporated at the end of relevant chapters.

The book, with its compilations of vast literature and its lucid presentation, will certainly be useful to *undergraduate and postgraduate* students. It will also be of help to students preparing for various competitions, including IAS, PCS and Medical Entrance Examinations of various boards.

Key Features

- Includes experiments at the end of relevant chapters which will help in practicum modules of the curriculum
- Profusely illustrated with diagrams. Handful of photomicrographs have also been included.
- Has 800 objective type questions with answers, Glossary of key terms and chapter-wise Select Readings. Study questions at the end of the chapters will reinforce learning.

Market: Primarily for BSc, MSc. Also useful for Competitive Examinations.

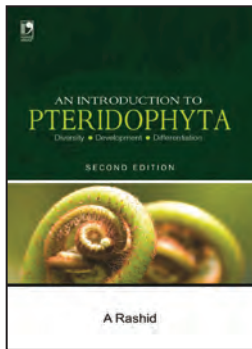
ISBN: 9788125918790 | Price: ₹ 650 | Pages: 696 | Size: 6.25" X 9.5" (Paperback)

Contents

Part-I: The Cell	12. Photosynthesis	Part-4: Growth and Related Phenomena
1. The Cell	13. Bacterial Photosynthesis and Chemosynthesis	25. Growth
Part-2: Water Relations	14. Photorespiration	26. Plant Growth Regulators
2. Different Bio-Physico-Chemical Phenomena	15. Translocation of Solutes	27. Photoperiodism and Vernalisation
3. Absorption of Water	16. Respiration	28. Photobiology
4. Ascent of SAP	17. Nitrogen Metabolism	29. Plant Movements
5. Transpiration	18. The Nucleic Acids (DNA and RNA)	30. Fruiting
6. Mineral Nutrition	19. Replication of DNA	31. Senescence
7. Mineral Salt Absorption	20. Select Nuclear Enzymes	32. Seed Germination
8. Heterotrophic Plants	21. Synthesis of Proteins	33. Biology of Dormancy
Part-3: Biochemistry and Metabolism	22. The Genetic Code	34. Stress Physiology
9. Elementary Biochemistry	23. Regulation of Gene Action and Signal Transduction Mechanism	35. Biological Clock
10. The Enzymes	24. Fat Metabolism	36. Photomorphogenesis
11. Photosynthetic Apparatus		37. Role of Plant Physiology in Agriculture
		38. Modern Laboratory Techniques

S N Pandey has been teaching Plant Physiology at DAV College, Kanpur since 1966. He is General Secretary of the International Society for Plant and Environment.

B K Sinha worked on Plant Physiology for 30 years. Dr Sinha also worked on ten annual reports on plant composition scheme for the ICAR.



An Introduction to Pteridophyta, 2e

A Rashid

ISBN: 9788125907091

Price: ₹ 550 | Pages: 436

Size: 6.25" X 9.5" (Paperback)

About the Book

An informative, innovative and comprehensive text on the subject, the second revised edition of the book offers a coherent account of various aspects of pteridophyta, in the light of new findings. It covers the entire course of reading on the subject for BSc and MSc degrees.

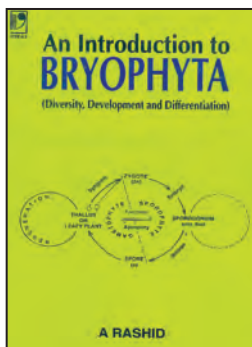
Salient Features

Acclaimed internationally, this informative, innovative and comprehensive text offers a coherent account of various aspects of pteridophyta in the light of latest findings. Covers the entire courses of BSc and MSc.

Contents

1. Introduction, 2. Psilopsida, 3. Lycopside, 4. Equisetopsida, 5. Pteropsida, 6. Gametophyte, 7. Sporophyte, 8. Germination of Spore, 9. Initiation of Gametophyte, 10. Sexuality, 11. Regeneration, 12. Alternation of Generations, 13. Morphogenesis of Sporophyte, 14. Cytogenetics and Speciation, 15. Origin and Evolution • Literature • Subject Index

A Rashid has researched and taught at the Department of Botany, University of Delhi, for over 40 years. After an initial interest in bryophytes, an opportunity of post-doctoral research in the lab of Prof HE Street (University of Leicester, UK) was the turning point in his interest on cell physiology of higher plants. For furtherance of his research he was awarded Alexander von Humboldt Fellowship to work in the lab of Dr J Reinert (Freie University at Berlin) on pollen physiology and biotechnology and in the lab of Prof H Mohr (University of Freiburg) on physiology of phytochrome. Dr Rashid's research topics have been protonema, protoplast, pollen and phytochrome. He has published over 80 research papers and a few reviews in international journals.



An Introduction to Bryophyta

A Rashid

ISBN: 9788125905691

Price: ₹ 475 | Pages: 308

Size: 6.25" X 9.5" (Paperback)

About the Book

This endeavour is aimed to be comprehensive and innovative. It covers the entire course of reading in Bryology. After a brief Introduction, there is an account of array of diversity and development of Bryophytes. In three chapters on Liverworts, Hornworts and Mosses, one can find an illustrated and concise account of all representative types. It is followed by comparative morphology. In two chapters on Gametophyte

and Sporophyte are unravelled the elements of unity in diversity. Due emphasis has been given to experimental studies. In five chapters are traced the events of life cycle; Spore germination, Protonema differentiation and Gametophyte initiation, Sexuality and Sporophyte development, Regeneration, and Alternation of generations. Experimental studies – a backbone of this book – are not only interesting in a class room but informative to decipher different aspects of differentiation. Finally, there is food for thought in chapters on Cytogenetics and Evolution, and Origin and Fossil History. At the end is an extensive bibliography of old and new Literature, for further reading.

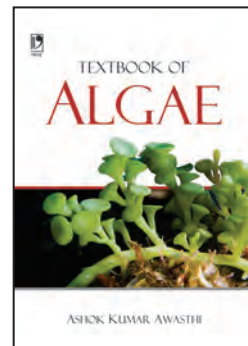
Salient Features

Aimed to be comprehensive and innovative, it covers the entire course in Bryology for BSc and MSc.

Contents

1. Introduction, 2. Hepaticopsida (Liverworts), 3. Anthocerotopsida (Hornworts), 4. Bryopsida (Mosses), 5. Gametophyte, 6. Sporophyte, 7. Spore Germination, 8. Protonema Differentiation and Gametophyte Initiation, 9. Sexuality and Sporophyte Development, 10. Regeneration, 11. Alternation of Generations, 12. Cytogenetics and Evolution, 13. Origin and Fossil History, 14. Literature • Subject Index

A Rashid has researched and taught at the Department of Botany, University of Delhi, for over 40 years. After an initial interest in bryophytes, an opportunity of post-doctoral research in the lab of Prof HE Street (University of Leicester, UK) was the turning point in his interest on cell physiology of higher plants. For furtherance of his research he was awarded Alexander von Humboldt Fellowship to work in the lab of Dr J Reinert (Freie University at Berlin) on pollen physiology and biotechnology and in the lab of Prof H Mohr (University of Freiburg) on physiology of phytochrome. Dr Rashid's research topics have been protonema, protoplast, pollen and phytochrome. He has published over 80 research papers and a few reviews in international journals.



Textbook of Algae

Ashok Kumar Awasthi

ISBN: 9789325990227

Price: ₹ 450 | Pages: 424

Size: 6.75" X 9.5" (Paperback)

About the Book

Textbook of Algae provides a comprehensive and up-to-date account of the occurrence, structure, reproduction, phylogeny and classification of algae. It explains the subject in full detail, with special focus on the life cycles of some common genera. In addition, it discusses the characteristic features of the important forms of algae, applied aspects, interaction between algae and environment, protocol for algal identification, and culture and cultivation of algae. The most recent uses of algae, such as they being a source of hydrogen and their use in the extraction of biodiesel, have also been included.

The book has been written for undergraduate and postgraduate students of botany. It covers the syllabi of various universities, particularly the most recent syllabus recommended by the University Grants Commission. It will also serve students appearing for various competitive examinations.

Salient Features

- Describes the subject so as to arouse the interest of the student
- Contains more than 275 diagrams to explain various topics to the fullest
- Offers all types of questions: essay type, short answer type, fill in the blanks, true/

false, and MCQs to develop a comprehensive ability to face examinations

- A virtual question bank that contains more than 230 essay type questions, 400 short answer type, 180 fill in the blanks, 90 true/false and 300 MCQs.

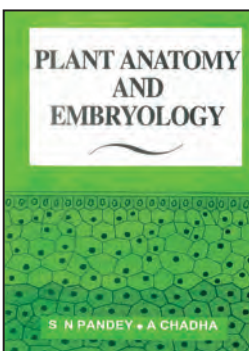
Benefits

Covers the syllabi of most Indian universities.

Contents

1. Introduction, 2. Classification of Algae, 3. Class: Cyanophyceae, 4. Class: Chlorophyceae, 5. Class: Charophyceae, 6. Class: Xanthophyceae, 7. Class: Bacillariophyceae, 8. Class: Phaeophyceae, 9. Class: Rhodophyceae, 10. Class: Euglenophyceae, 11. Miscellaneous Characteristics of Algae, 12. Applied Aspects, 13. Algae and Environment, 14. Protocol for Identification, Culture and Cultivation of Algae

Ashok Kumar Awasthi is Associate Professor and Head, Department of Botany, Brahmanand College, CSJM University, Kanpur. He has 25 years of experience in teaching botany to undergraduate and postgraduate students.



Plant Anatomy and Embryology

S N Pandey & A Chadha

ISBN: 9788125902409

Price: ₹ 595 | Pages: 476

Size: 6.25" X 9.5" (Paperback)

About the Book

The book, by virtue of its authoritative coverage, should be most suitable to undergraduate as well as postgraduate students of all universities and also to those appearing for various competitive examinations such as CPMT, DME, DCS and IAS.

Benefits

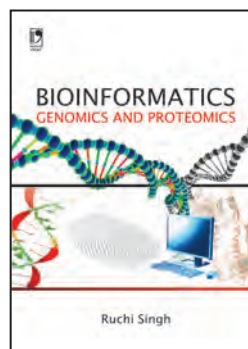
Suitable to undergraduate as well as postgraduate students of all universities and also to those appearing for various competitive examinations such as CPMT, DME, DCS and IAS.

Contents

Part One: Plant Anatomy: 1. The Plant Body, 2. The Cell, 3. Cell Cycle and Cell Division, 4. Meristematic Tissues, 5. Permanent Tissues, 6. Tissue System, 7. The Stem-Primary Structure, 8. The Root-Primary Structure, 9. The Leaf, 10. Secondary Growth, 11. Abscission and Healing of Wounds, 12. Anomalous Secondary Growth, 13. Nodal Anatomym, 14. Anatomy of Floral Partsm, 15. Fruit Wall and Seed Coat, 16. Ecological Anatomy, 17. Systematic Plant Anatomy, **Part Two: Embryology and Palynology:** 1. Introduction, 2. Microsporophy-II, 3. Microgametophyte, 4. The Megasporephy-II, 5. Megametophyte, 6. Pollination, 7. Fertilization, 8. Sexual Incompatibility, 9. Endosperm, 10. Embryo, 11. Apomixis, 12. Polyembryony, 13. Seed, 14. Embryology in Relation to Taxonomy, 15. Experimental Embryology, 16. Palynology

S N Pandey, formerly , Senior Reader, Department of Botany, Christ Church College, University of Kanpur, has 38 years of experience of teaching botany to undergraduate and postgraduate students.

A Chadha has been teaching at the S.N. Sen P.G. College, Kanpur.



Bioinformatics: Genomics and Proteomics

Ruchi Singh

ISBN: 9789325978553

Price: ₹ 365 | Pages: 318

Size: 6.75" X 9.5" (Paperback)

About the Book

This is an innovative textbook for undergraduates as well as postgraduates offering basic knowledge of biology. Its aim is to provide state-of-the-art information about this developing science that has the potential to replace existing biological approaches to study genes and proteins. The chapters are explained in a concise yet detailed manner, including ample cross-references, references to literature and databases, tables and illustrations.

The book's sound approach to this intricately complex field makes it an exceptional resource for further exploration into biochemistry, molecular biology, genomics and drug designing fields. Abundant learning features make this book the ideal teaching and learning tool.

This is an in-depth textbook written for the biologist who wants a thorough understanding of the popular bioinformatics programs and molecular databases currently in use. It provides a broad, application-oriented overview of this technology.

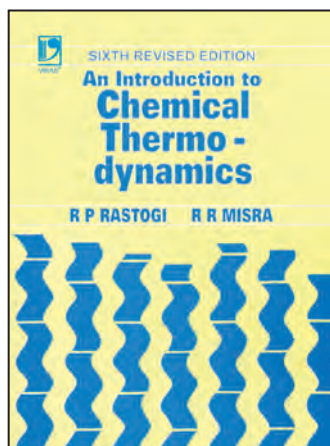
Key Features

- Illustrations to bolster understanding of complex biochemical relations
- Tables for quick access to precise data
- Extensive end-of-chapter exercises and references
- The most basic details furnished for those who are new to biology
- User-friendly, Internet-based bioinformatics tools that allow researchers to extract information from databases and analyze it
- Analysis of one software tool discussed in each chapter step-by-step from entering the input till interpretation of the results

Contents

1. Genomics Prologue, 2. Sequencing Genomes, 3. Genome Mapping, 4. Gene Prediction and Analysis, 5. Gene Expression and RNA Structure Prediction, 6. Comparative Genomics, 7. Proteomics Introduction, 8. Protein Primary Structure Identification and Analysis Techniques, 9. Protein Secondary Structure Prediction, 10. Protein Tertiary Structure Prediction, 11. Insilico Drug Designing • Index

Ruchi Singh is alumni of Advanced centre of Botany, Banaras Hindu University, Varanasi, (U.P.). She worked as a lecturer in Department of Bioinformatics, SRM University and also as a scientist at SIBB R&D, Kochi. Presently she is a visiting faculty member at Chowgule College, Goa and conducts bioinformatics workshops and guest lectures at various other institutes in Goa.



An Introduction to Chemical Thermodynamics, 6e

R P Rastogi & R R Misra

About the Book

- *Calculations approach:* Strong mathematical rigor has been applied, and a complementary physical treatment given, to make students strong in the applied aspects of thermodynamics
- *Problem solving presentation:* 195 solved examples and 269 unsolved problems have been given. Hints to difficult problems have been given too.
- *Concept checking* Review Questions have been given at the end of every chapter
- Coverage on thermodynamic discussion of eutectics, solid solutions and phase separation

Benefits

- Essential for B.Sc. And M.Sc. students of most Indian universities.
- Useful reference book for students of Physics and Chemical Engineering.

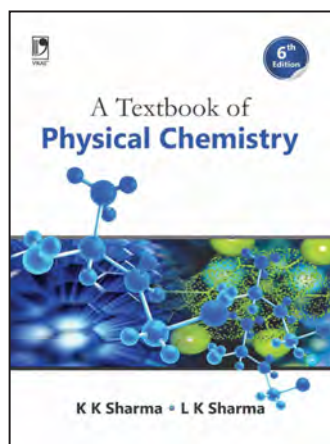
ISBN: 9780706999358 | Price: ₹ 650 | Pages: 648 | Size: 5.5" X 8.5" (Paperback)

Contents

1. Fundamentals Concepts, 2. First Law of Thermodynamics, 3. Thermochemistry, 4. Second Law of Thermodynamics, 5. Free Energy Functions, 6. Statistical Thermodynamics, 7. System of Variable Composition, 8. Chemical Equilibria, 9. Phase Rule, 10. Non-Equilibrium States: Linear Thermodynamics of Irreversible Processes

R P Rastogi was Vice-Chancellor, Banaras Hindu University, Varanasi, and also Fellow of Indian National Science Academy.

R R Misra has been a senior lecturer, Department of Chemistry, Hindu College, University of Delhi.



A Textbook of Physical Chemistry, 6e

K K Sharma & L K Sharma

About the Book

The book emphasizes on fundamental rather than excessive details and develops the topics from the first principles. It contains a lot of worked-out examples exposing the students to practical applications of equations and helping them comprehend the magnitude of many different physiochemical quantities. Both the traditional cgs/esu and the newer SI systems of units have been used. This is because in spite of wider acceptance of the SI units, the cgs system of units continues to be used in most chemical literature. This book has been successfully guiding undergraduate students of science, engineering and pharmacy of the Indian universities since 40 years due to its approach of teaching the subject in the simplest possible way.

Salient Features

- 'Quick Recap' section with every chapter to bring the concepts on fingertips
- 262 MCQs for complete comprehension
- 631 Problems for practising the concepts learned
- Over 200 diagrams
- Covers the requirements of chemistry students as well as aspiring engineering and medical students.

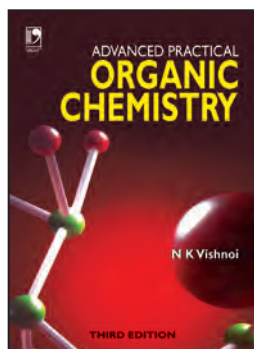
ISBN: 9789352590421 | Price: ₹ 695 | Pages: 880 | Size: 6.75" X 9.5" (Paperback)

Contents

1. Some Fundamental Chemical Concepts, 2. Gaseous State, 3. Liquids, 4. Properties of Liquids, 5. The Solid State, 6. Thermodynamics, 7. Thermochemistry, 8. Entropy: The Second Law of Thermodynamics, 9. Free Energy Functions, 10. Chemical Equilibrium, 11. Phase Equilibria, 12. Solutions, 13. Colligative Properties of Solutions, 14. Electrochemistry, 15. Ionic Equilibria, 16. Electrochemical Cells, 17. Chemical Kinetics, 18. Catalysis, 19. Colloids, 20. Atomic Structure, 21. Wave Mechanical Model of the Atom, 22. Chemical Bonding, 23. Nuclear Chemistry, 24. Photochemistry, 25. Physical Properties and Chemical Constitution, 26. Polymers • Appendices • Log Tables

K K Sharma was a Reader in the Department of Chemistry, Zakir Husain College, University of Delhi.

L K Sharma is retired Associated Professor from ARSD College, University of Delhi where he was associated for over 40 years.



Advanced Practical Organic Chemistry, 3e

N K Vishnoi

ISBN: 9788125931287

Price: ₹ 595 | Pages: 552

Size: 5.5" X 8.5" (Paperback)

About the Book

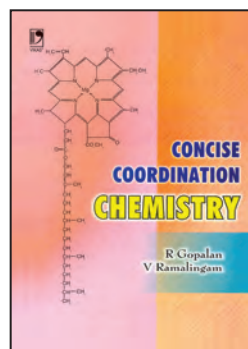
For BSc. and MSc. as per UGC syllabuses. Develops manipulative practical skill. Starting from simple preparations goes on to compounds involving two, three or more steps based on several types of reactions. Help understand intricacies, theoretical aspects and practical limitations of a known reaction leading to mastery of the art of organic synthesis.

Contents

Part One: Separation, Purification and Identification of Organic Compounds:

1. General Experimental Techniques, 2. Separation of Mixtures, 3. Preliminary Investigations, 4. Detection of Elements, 5. Compounds Containing C and H with or Without O, 6. Compounds Containing S, C, H with or without O, 7. Compounds Containing N, C, H with or without O, 8. Compounds Containing Halogen (Cl, Br or I) C, H with or Without O, 9. Compounds Containing S, Halogen (Cl, Br) C, H with or Without O, 10. Compounds Containing N, Halogen (Cl, Br, I) C, H With or without O, 11. Compounds Containing N, S, C, H with or without O, 12. Compounds Containing N, S, Cl, C, H and O, 13. Miscellaneous Compounds, Part Two: Organic Preparations: 14. Simple Preparations, 15. Two Step Preparations, 16. Three Step Preparations, 17. Biochemical Preparations, Part Three: Organic Quantitative Analysis: 18. Estimation of Elements, 19. Molecular Weight of Organic Compounds, 20. Estimation of Groups, 21. Miscellaneous Estimations • Appendix-I-II

N K Vishnoi, retired as Reader from Department of Chemistry, Christ Church College, Kanpur after teaching organic chemistry to undergraduate and postgraduate students for more than three decades. He has been guiding research work in the field of synthetic chemistry and has published several research papers in the subject. After superannuation from the college he migrated to England for a year under the HSMP programme of the UK government. He has been associated as a content provider for chemistry with institutes like Egurucool (now a part of NIIT, New Delhi) and Career Launcher, New Delhi along with various other organizations. He is also the co-author of A Textbook of Organic Chemistry published by Vikas.



Concise Coordination Chemistry

R Gopalan & V Ramalingam

ISBN: 9788125909347

Price: ₹ 560 | Pages: 424

Size: 6.25" X 9.5" (Paperback)

About the Book

Industrial applications of Metal complexes have gained significant importance especially in the area of Catalysis in the last three decades. Scope for further development of such applications is extensive as several biological processes in living cells involve metal complexes. Coordination Chemistry is a subject uniquely involving application of Quantum Mechanics, Spectroscopy, Kinetics, Catalysis, Biology and Industrial Chemistry. This book has been written keeping these important aspects of the subject in mind.

Salient Features

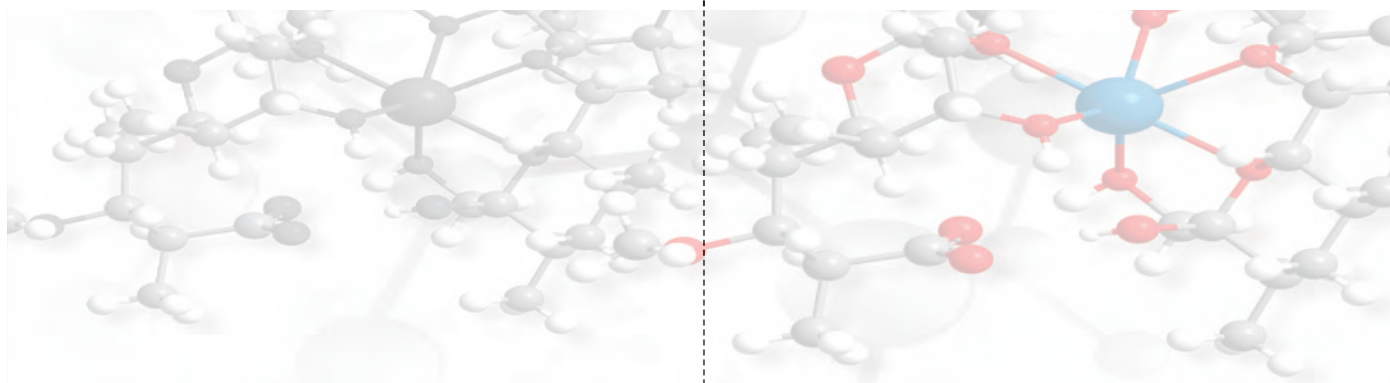
The Industrial applications of metal complexes are extensive as several biological processes in living cells involve metal complexes. Coordination Chemistry is a subject uniquely involving application of various branches of science. The book conforms to prescribed syllabuses of BSc (Hons) and MSc. It carries a virtual question bank with more than 300 problems, about 100 MCQs, and another 100 that require reasons for given statements or facts, apart from a dedicated chapter on solved problems.

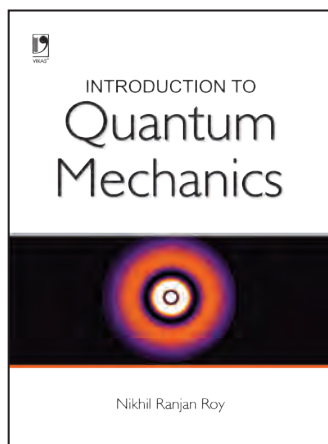
Contents

1. Introduction, 2. Nomenclature of Metal Complexes, 3. Theories of Coordination Compounds-I, 4. Theories of Coordination Compounds-II, 5. Spectral and Magnetic Characteristics of Metal Complexes, 6. Stability of Coordination Compounds, 7. Chelates, 8. Isomerism of Metal Complexes, 9. Reactions of Metal Complexes-I, 10. Reactions of Metal Complexes-II, 11. Organometallic Compounds, 12. Metal Carbonyls and Related Compounds, 13. Industrial Applications of Organometallic Compounds, 14. Biological Coordination Compounds, 15. Applications of Coordination Compounds, 16. Preparation of Coordination Compounds, 17. Solved Spectral Problems in Coordination Chemistry • Glossary • Appendix • Bibliography • Index

R Gopalan is Professor and Head, Department of Chemistry, Madras Christian College, Tambaram. A prolific writer, he has authored several books on Chemistry.

V Ramalingam is Senior Faculty, Department of Chemistry, Madras Christian College, Tambaram. He has thirty-seven years of teaching experience and has authored/co-authored books on Chemistry at the School and College levels.





Introduction to Quantum Mechanics

Nikhil Ranjan Roy

About the Book

The subject of quantum mechanics has grown tremendously during the last century and revealed many hidden secrets of nature. It has enabled mankind move towards understanding the nature of matter and radiation. However, for the students its concepts have remained a problem to understand. Having deeply observed this situation and having himself experienced it, the author has presented the subject in the style of classroom teaching that reveals its marvels and the wide scope it offers.

The book focuses on the evolution of the subject, the underlying ideas, the concepts, the laws and the mathematical apparatus for the formulation of the subject in a systematic and comprehensible manner. Each chapter is followed by a number of solved examples and problems, which are chosen so as to serve as guidelines in the application of the basic principles of quantum mechanics and to assist in solving more complex problems.

Key Features

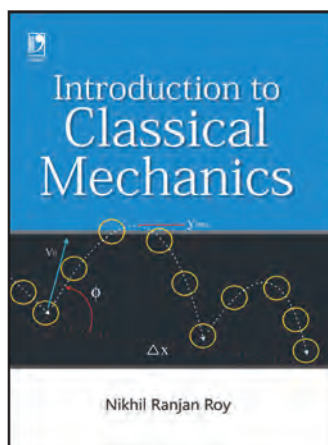
- Develops passion for quantum mechanics; thus makes this tough subject look simple
- Showcases the marvels and scope of quantum mechanics
- Meets the syllabi requirements of all undergraduate courses

ISBN: 9789325990197 | Price: ₹ 295 | Pages: 272 | Size: 6.75" X 9.5" (Paperback)

Contents

1. Origin of Quantum Physics, 2. Mathematical Preliminaries, 3. Postulational Foundation of Quantum Theory, 4. Wave Mechanics of Schrodinger, 5. One-Dimensional Problems, 6. Linear Harmonic Oscillator Problems, 7. Three-Dimensional Problems: Spherically Symmetric Potentials, 8. Angular Momentum in Quantum Mechanics, 9. Dirac's Formulation

Nikhil Ranjan Roy retired as Professor and Head of the Department of Physics, Ranchi University, Ranchi.



Introduction to Classical Mechanics

Nikhil Ranjan Roy

About the Book

The book deals with the mechanics of particles and rigid bodies. It is written for the undergraduate students of physics and meets the syllabus requirements of most Indian universities. It also covers the entire syllabus on classical/analytical mechanics for various national and state level examinations like NET, GATE and SLET. Some of the topics in the book are included in the curricula of applied mathematics in several institutions as well.

Key Features

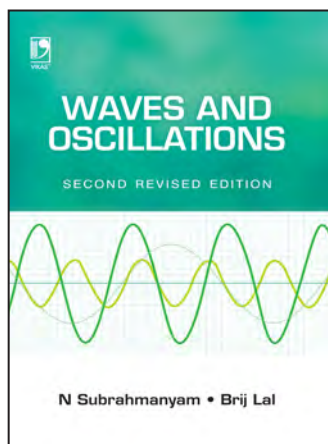
- Main emphasis is on the evolution of the subject, the underlying ideas, the concepts, the laws and the mathematical methods
- Written in the style of classroom teaching so that the students may benefit from it by way of self-study
- Step-by-step derivation of concepts, with each step clearly numbered
- Concepts explained with the help of relevant examples to aid understanding

ISBN: 9789325994027 | Price: ₹ 325 | Pages: 352 | Size: 6.75" X 9.5" (Paperback)

Contents

1. Introduction, 2. Fundamental Concepts and Definitions, 3. Variational Principle and Lagrangian Formulation of Mechanics, 4. Hamiltonian Formulation of Mechanics, 5. Canonical Transformation Theory, 6. Hamilton-Jacobi Theory, 7. Conservation Laws in Classical Mechanics, 8. Two-Body Central Force Problem: Kepler's Laws of Planetary Motion, 9. Scattering in Central Force Field, 10. Kinematics and Dynamics of The Motion of a Rigid Body, 11. Moving Frames of Reference: Rotating Frame, Centrifugal Force and Coriolis Force, 12. Small Oscillations • Index

Nikhil Ranjan Roy retired as Professor and Head of the Department of Physics, Ranchi University, Ranchi.



Waves and Oscillations, 2e

N Subrahmanyam & Brij Lal

About the Book

The subject matter is divided into twelve chapters. Each chapter is self-contained and is treated in a comprehensive way, using the S.I. system of units. Harmonic Oscillators, Linearity and Superposition Principle, Oscillations with One Degree of Freedom, Resonance and Sharpness of Resonance, Quality Factor, Doppler Effect in Sound and Light, Medical Applications of Ultrasonics, Acoustic Intensity, Acoustic Measurements, Wave Velocity and Group Velocity, Maxwell's Equations, Propagation of Electromagnetic Waves in Isotropic Media, De Broglie Waves, Heisenberg's Uncertainty Principle and Special Theory of Relativity are some of the important topics which have been given special attention. Solved numerical problems, wherever necessary, are given in the text and in the exercises at the end of each chapter. The book is intended to be a textbook for the undergraduate students of Indian universities.

Salient Features

- A new chapter on Fourier Analysis has been introduced.
- New topics like free oscillations with two degrees of freedom, properties of a mode, two-coupled LC circuits, damped SHM in an electrical circuit, what propagates wave motion?, theory of resonator, vibrations in rods and plates have been, speech, human voice and human ear, limits of audibility and tracking of artificial satellites.

Benefits

Covers the topics included in the syllabi of most Indian universities.

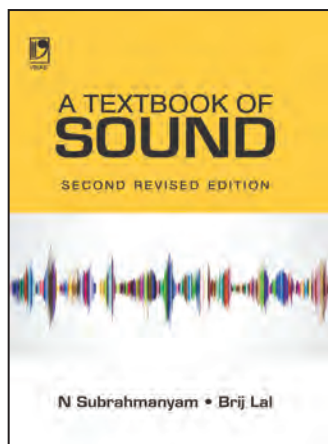
ISBN: 9780706985436 | Price: ₹ 495 | Pages: 452 | Size: 5.5" X 8.5" (Paperback)

Contents

1. Harmonic Oscillators, 2. Lissajous Figures, 3. Free, Forced and Resonant Vibrations, 4. Wave Motion, 5. Velocity of Sound, 6. Stationary Waves, Interference and Beats, 7. Vibrations in Strings and Air Columns, 8. Reflection, Refraction and Diffraction, 9. Doppler Effect, 10. Fourier Analysis, 11. Practical Applications, 12. Allied Phenomena

N Subrahmanyam was Reader in the Department of Physics, Kirori Mal College, University of Delhi.

Brij Lal was Reader in the Department of Physics, Hindu College, University of Delhi.



A Textbook of Sound, 2e

N Subrahmanyam & Brij Lal

About the Book

This book sets out to elaborate on the principles of sound in a most scholarly and comprehensive manner. Harmonic oscillators, linearity and superposition principle, oscillations with one degree of freedom, resonance and sharpness of resonance, quality factor, Doppler effect in sound and light, tape recording, cathode-ray oscillograph, medical applications of ultrasonics, acoustic intensity and acoustic measurements are some of the important topics which have been given special attention.

Although the book is for BSc students, some of the elementary discussions are included to initiate an advanced treatment of the subject.

Salient Features

- Additional matter on 'What propagates wave motion?' and 'velocity of sound' is provided.
- New topics like silence zones, theory of resonator and dependence of the frequency of resonator on the size and shape of the mouth of resonator have been added.
- Previous years' questions included in Exercises.

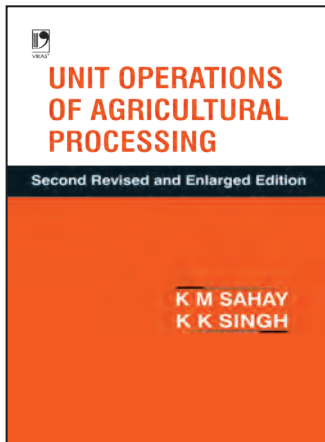
Benefits

- Covers the topics included in the syllabi of most Indian universities.
- Apart from B.Sc. and engineering students, also useful for UPSC aspirants.

ISBN: 9780706998177 | Price: ₹ 450 | Pages: 300 | Size: 5.5" X 8.5" (Paperback)

Contents

1. Harmonic Oscillators, 2. Lissajous Figures, 3. Free, Forced and Resonant Vibrations, 4. Forced Vibrations, 5. Velocity of Sound, 6. Stationary Waves, Interference and Beats, 7. Vibrations in Strings and Air Columns, 8. Doppler Effect, 9. Reflection, Refraction and Diffraction, 10. Practical Applications



Unit Operations of Agricultural Processing, 2e

K M Sahay & K K Singh

About the Book

The book encompasses a wide range of topics and themes on operations of agricultural processing. It is designed as per the course curriculum of B.Tech and M.Tech (Agricultural Engineering) institutes, and will also serve as a good teaching aid in the field of Post Harvest Technology.

Salient Features

- Completely covers the technologies and processes involved in agricultural processing
- Wherever applicable, mathematical treatment has been included
- Well-labelled diagrams have been used profusely across the book

Benefits

Covers complete course content of B.Tech. and M.Tech. (Agricultural Engineering) institutes.

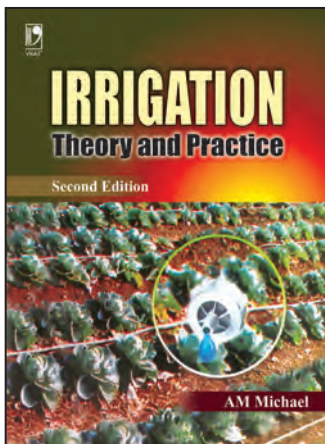
ISBN: 9788125911425 | Price: ₹ 599 | Pages: 388 | Size: 6.25" X 9.5" (Paperback)

Contents

1. Introduction, 2. Cleaning and Grading, 3. Drying, 4. Storage, 5. Milling, 6. Material Handling and Transportation, 7. Elementary Food Engineering, 8. Agricultural Wastes and By-products Utilisation • *Appendices* • *Index*

K M Sahay had been a Senior Scientist at the Central Institute of Agricultural Engineering, Bhopal. He served as an Assistant Engineer (Research) at Govind Ballabh Pant University and Technology, Pantnagar and later joined the ICAR as Scientist in the discipline of Agricultural Structures and Process Engineering.

K K Singh served as a Research Fellow at PAU, Ludhiana and thereafter, joined RAU, Pusa (Bihar) in the capacity of Assistant Professor.



Irrigation Theory and Practice, 2e

A M Michael

About the Book

It is a comprehensive treatise on Water Resources Development and Irrigation Management. For the last 30 years the book has enjoyed the status of an definitive textbook on the subject. It has now been thoroughly revised and updated, and thus substantially enlarged. In addition to the wholesale revision of the existing chapters, three new chapters have been added to the book, namely, 'Lift Irrigation Systems and their Design', 'Water Requirement of Crops and Irrigation Management', and 'Economic Evaluation of Irrigation Projects and Water Pricing Policy'.

Salient Features

- Analysis of water resources potential and irrigation development in India against the global scenario
- Review of the situations in select countries of Asia and Africa
- Emphasis on appropriate technology for small scale units
- Methods showing conjunctive use of surface and ground water
- Application of modern economic theories in project planning and evaluation
- Case study-based design examples

Benefits

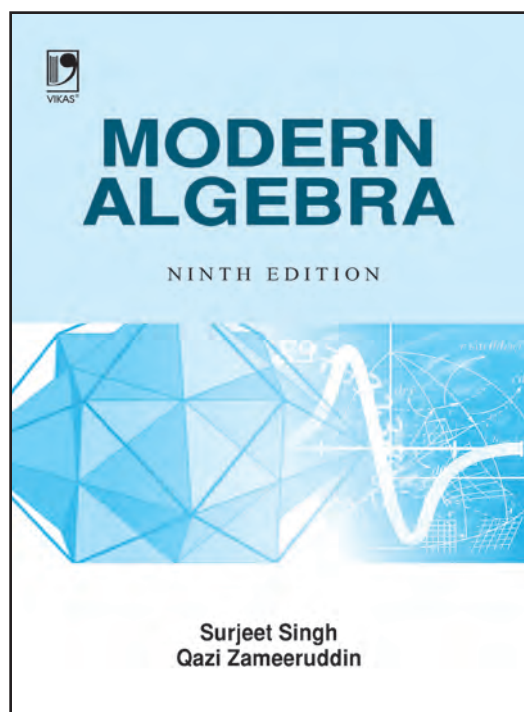
- Popular amongst students in developing countries of Asia and Africa as well as many institutes globally
- Comprehensive content and well-defined pedagogy helps in easy understanding of the topics

ISBN: 9788125918677 | Price: ₹ 795 | Pages: 772 | Size: 8.5" X 11" (Paperback)

Contents

1. Utilization of Water Resources and Irrigation Development, 2. Irrigation Wells, 3. Water Lifts and Pumps, 4. Lift Irrigation Systems and Their Design, 5. Measurement of Irrigation Water, 6. Open Channel Distribution in Command Areas, 7. Underground Pipeline System, 8. Land Grading and Field Layout, 9. Soil-Plant-Water Relationships, 10. Water Requirement of Crops and Irrigation Management, 11. Surface Methods of Water Application, 12. Sprinkler Irrigation, 13. Drip Irrigation, 14. Salt Management in Irrigated Agriculture, 15. Economic Evaluation of Irrigation Projects and Water Pricing Policy

A M Michael an internationally reputed authority on water resources development and management. He held senior faculty positions in Rajasthan Agricultural University, Punjab Agricultural University and Indian Agricultural Research Institute (IARI).



Modern Algebra, 9e

Surjeet Singh & Qazi Zameeruddin

About the Book

For almost forty-five years, the book 'Modern Algebra' has served the student community as a textbook for introductory courses on the subject. It caters to undergraduate and postgraduate students.

The book starts from set theory and covers an advanced course in group theory and ring theory.

A detailed study of field theory and its application to geometry is undertaken after a brief and concise account of vector spaces and linear transformations. One of the chapters discusses rings with chain conditions and Hilbert's basis theorem. The book is replete with solved examples to provide ample opportunity to students to comprehend the subject.

This edition carries an improvement over all the previous editions inasmuch as it incorporates latest developments and thinking on the subject. Presentation of the subject matter has been modified in line with current thinking. Many results have been rearranged, and the proofs of many theorems rewritten. It also carries more examples now. One very perceptible change is the introduction of Multiple Choice Questions at the end of relevant chapters in keeping with the latest trend of framing questions, especially because this subject is finding place in competitive examinations as well.

Market: Primarily for BSc, MSc. Also useful for Competitive Exams.

New in this Edition

1. Completely revisited. Relevant changes effected to make the subject more comprehensible
2. Proof of Schröder-Bernstein Theorem provided
3. Topic of Semi-direct Product of Groups introduced
4. Proofs of Fundamental Theorem of Arithmetic and Cauchy's Theorem for Finite Groups rewritten
5. Solutions provided to more problems
6. 124 MCQs framed in a manner that enables generation of more questions

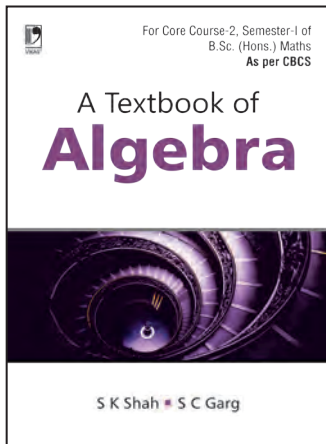
ISBN: 9789352718849 | Price: ₹ 625 | Pages: 608 | Book Size: 5.5" x 8.5" (Paperback)

Contents

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|--|--|---------------------------------|
| 1. Set Theory | 7. Rings | 14. Galois Theory |
| 2. Groups | 8. Homomorphisms and Embedding of Rings | 15. Rings with Chain Conditions |
| 3. Quotient Groups, Homomorphisms and Permutations | 9. Polynomial Rings | 16. Canonical Forms |
| 4. Structure Theory of Groups | 10. Factorization Theory in Integral Domains | • Bibliography |
| 5. Solvable Groups and Jordan-Holder Theorem | 11. Vector Spaces | • Index |
| 6. Survey of Some Finite Groups | 12. Linear Transformations | |
| | 13. Fields | • Index |

Surjeet Singh has a long and rich teaching and academic career spanning more than 4 decades. He has also authored a book on Linear Algebra published by Vikas.

Qazi Zameeruddin taught at the Department of Mathematics, Kirori Mal College, University of Delhi, and co-authored Modern Algebra and Solid Geometry published by Vikas.



A Textbook of Algebra

S K Shah & S C Garg

About the Book

It has been written strictly in accordance with the CBCS syllabus of the UGC. The book teaches the concepts and techniques of basic algebra with a focus on explaining definitions and theorems, and creating proofs. The theory is supported by numerous examples and plenty of worked-out problems. Its strict logical organization has been designed to help the reader to develop confidence in the subject. By introducing various interesting applications of algebra the book also aims at creating a broad and solid foundation for the study of advanced mathematics.

The contents covered in the book are equivalence relations, functions, cardinality, congruence-modulo, mathematical induction and De Moivre's theorem. Further, some basic topics of linear algebra like vectors and matrices, linear equations, Gauss elimination, subspace and its dimension, rank-nullity theorem, linear transformations and their relations to matrices, and eigenvalues and eigenvectors are also covered. Since practice makes the man perfect, there are a good number of problems that stretch the thinking power of the learner. The problems are graded from easy to those involving higher order thinking.

By its virtue the book inculcates that mathematical maturity which students need in their current and future courses to grow up into mathematicians of substance.



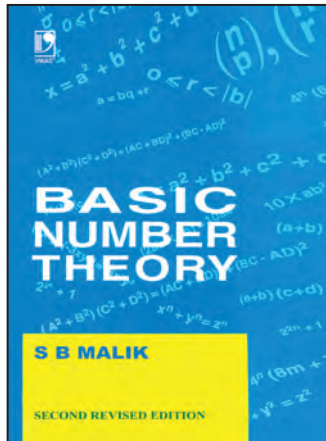
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Sudesh K Shah is a PhD in Mathematics from IIT-Delhi. She retired from Sri Venkateswara College, University of Delhi, Delhi, recently as Associate Professor after a long and successful career spanning 35 years, during which she taught mathematics to undergraduate and postgraduate students.

Subhash Chand Garg is an MPhil in Mathematics presently teaching at Sri Venkateswara College, University of Delhi, Delhi.



Basic Number Theory, 2e

S B Malik

About the Book

This book is designed to meet the needs of the first course in Number Theory for the undergraduate students of various Indian and foreign universities. The students who are appearing at various competitive examinations where mathematics is on for testing shall also find it useful.

Salient Features

- Numerous solved and unsolved examples along with the answers have been included so that it gives a complete grip of the various concepts
- Wherever necessary, alternative proofs have been provided and after each definition, examples have been given for better understanding
- The most important feature is that the book throws a glance to the most recent developments on some of the prominent assertions and problems in the subject which are accessible even to high school students

Benefits

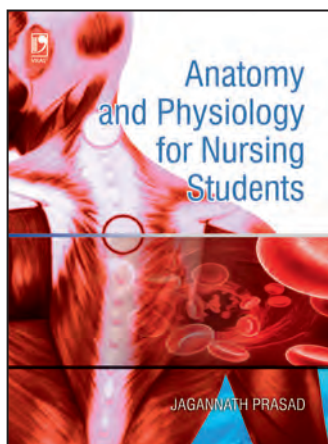
Caters to the need of the first course in Number Theory.

ISBN: 9780706987492 | Price: ₹ 345 | Pages: 228 | Size: 5.5" X 8.5" (Paperback)

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S B Malik is currently associated with Ambedkar University. Earlier she taught in the Department of Mathematics, Hindu College, University of Delhi, for over thirty years. During all those years, she taught Algebra to undergraduates and postgraduates at the college and also at both campuses of the University of Delhi. She has been teaching Number Theory for many years now. Her main interests are in fields of Algebra, Number Theory and Analysis.



Anatomy and Physiology for Nursing Students

Jagannath Prasad

About the Book

This book has been written by one of the most experienced and senior Professor of Anatomy who has been working continuously as Professor and HOD of Anatomy in India and abroad for 37 years (1970-1982 in India and 1982-2007 in various foreign countries). Through his vast experience, the author has written this comprehensive and clinically-oriented textbook of Anatomy and Physiology.

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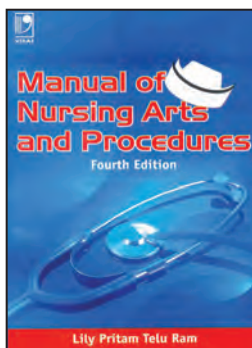
- RELAX boxes, which contain the summary of each part / organ to revise all the facts in a nut-shell and easy language.
- Clinical Anatomy and Physiology: After description of a part / organ, Clinical Anatomy and Physiology has been added to give a clear idea of the body in health and illness.
- Appendix, which includes review of: Vascular supply, Cranial nerves and their testing, Clinical procedures, Histological and Radiological techniques.
- Easy to understand, straight forward language complimented by more than 700 clear, colour illustrations and 200 tables.

ISBN: 9789325976184 | Price: ₹ 850 | Pages: 882 | Size: 6.75" X 9.5" (Paperback)

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Jagannath Prasad, B.Sc., M.B.B.S. (Pat), M.Sc. (Anatomy) and M.S. (Anatomy) is former Professor and Head of the Department of Anatomy, Patna Medical College, Patna University, India.



Manual of Nursing Arts and Procedures, 4e

Lily Pritam & Telu Ram

ISBN: 9788125918769

Price: ₹ 425 | Pages: 320

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About the Book

Manual of Nursing Arts and Procedures, a well established textbook for more than 25 years, provides a comprehensive and concise introduction to the procedures and equipment that is essential for every nurse. The Fourth Edition has been revised in accordance with the new syllabus of the Indian Nursing Council.

Salient Features

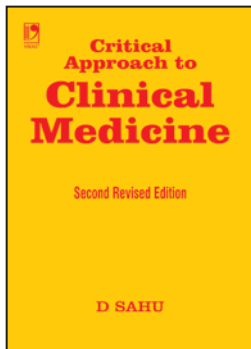
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Lily Pritam Telu Ram took her BSc (Nursing Degree from Hanover College, Indiana (USA) and Master's Degree in Nursing Education from Columbia University, New York (USA). She retired as Nursing Director of Philadelphia Hospital, Ambala.



Critical Approach to Clinical Medicine, 2e

D Sahu

ISBN: 9780706978728

Price: ₹ 450 | Pages: 342

Size: 5.5" X 8.5" (Paperback)

About the Book

Primarily intended for the students of medicine, the book puts forth a clear concept of clinical medicine. The author's principle objective has been to present succinctly but clearly some of the important clinical problems as encountered in clinical practice. Methods of physical examination have been described in a detailed and orderly fashion with special attention to the anatomical and physiological background. Various principles of diagnosing symptoms of diseases have been outlined. Throughout the book, there is emphasis on the need to obtain valid evidence by adopting reliable methods.

The book will be extremely useful to the undergraduate and postgraduate students of medicine.

Salient Features

Written for the students of medicine, the book puts forth a clear concept of clinical medicine. Its principal objective has been to present succinctly but clearly some of the important clinical problems as encountered in clinical practice.

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Disaster Management

R Subramanian
Second Edition

ISBN: 9789356742635

Price: ₹ 425 | Pages: 376

Size: 6.75" X 9.5" (Paperback)

About the Book

Disaster Management, 2e is an intended textbook for students pursuing a first or an intermediate course on the subject in any undergraduate programme, especially engineering courses such as civil, structural, geotechnical engineering and other specialized courses on the subject. The latest AICTE and the earlier UGC model curriculums have been extensively consulted to design the contents of the book. The UPSC aspirants will find the book useful to prepare short notes on many topics and in answering questions on disasters and disaster management.

The main objective of the book is to create awareness about and understanding of disasters and disaster mitigation measures. It deals with the subject in a structured

manner. Starting with an introductory chapter, the book goes to classification of disasters, separate chapters on natural and man-made (anthropogenic) disasters, basic management concepts, four-cycle disaster management, organizational structures in India and other countries, NGOs, ethical issues and case studies.

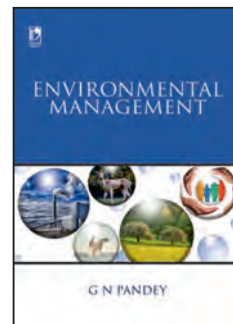
Key Features

- Extensive coverage of both natural and man-made disasters. Separate chapter on case studies of both types of disasters.
- Provides blueprints of not only rescue & relief but also how to prevent disasters, especially with reference to man-made disasters.
- Boxed exhibits of particular aspects of past disasters have been provided alongside the text as a learning aid.
- Important codes have been referenced appropriately – both national and international – including building design codes of some countries, ILO's code, Codes of Practice by BIS and National Building Code, and Ethical Codes.
- Disaster management agencies have been discussed thoroughly, including the need for international cooperation.

Contents

1. Overview 2. Understanding Disasters 3. Natural Disasters 4. Anthropogenic (Man-Made) Disasters 5. Pandemics and Environmental Disasters 6. Objectives and Principles of Disaster Management 7. Disaster Management Cycle 8. Stakeholders and Technological Tools of Disaster Management 9. International Cooperation and Organisational Structures for Disaster Management 10. Disaster Management in India 11. Ethical Issues 12. Case Studies • Further Reading • Appendix 1: Suggested Practical Tasks • Appendix 2: Vulnerability Maps of India • Index

R Subramanian, retired as Professor and Head of Department of Civil Engineering at National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh, after serving the organization for 36 years. He holds a bachelor's degree in Civil Engineering from Kerala University and a master's in Structural Engineering from Roorkee University (now IIT-Roorkee). He has taught Civil Engineering subjects to both undergraduate and postgraduate students. Pursuing his passion for teaching he presently works as a teacher trainer.



Environmental Management

G N Pandey

ISBN: 9788125902928

Price: ₹ 550 | Pages: 408

Size: 6.25" X 9.5" (Paperback)

About the Book

Pollution has become a worldwide phenomenon and so has become concern for its control. The alarming situation has awakened administrators, engineers, technocrats, governments and international organizations to take steps to curb pollution. Educational institutions now include in their curricula various aspects of pollution (its nature and dimensions, health hazards it has created, and measures of controlling and managing it, etc.). This book contains a core course in Environment Management. It will be useful to students of Civil, Mechanical, Chemical, Biochemical and other disciplines of Engineering and Technology.

Contents

1. Overview 2. Understanding Disasters 3. Natural Disasters 4. Anthropogenic (Man-Made) Disasters 5. Pandemics and Environmental Disasters 6. Objectives and Principles of Disaster Management 7. Disaster Management Cycle 8. Stakeholders and Technological Tools of Disaster Management 9. International Cooperation and Organisational Structures for Disaster Management 10. Disaster Management in India 11. Ethical Issues 12. Case Studies • Further Reading • Appendix 1: Suggested Practical Tasks • Appendix 2: Vulnerability Maps of India • Appendix 2: Vulnerability Maps of India • Index

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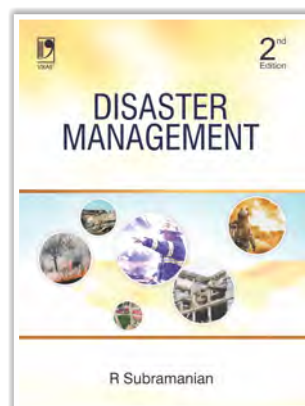
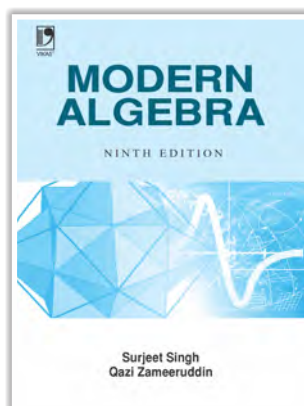
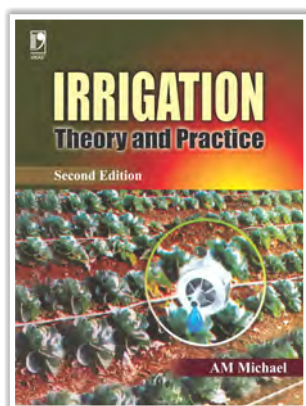
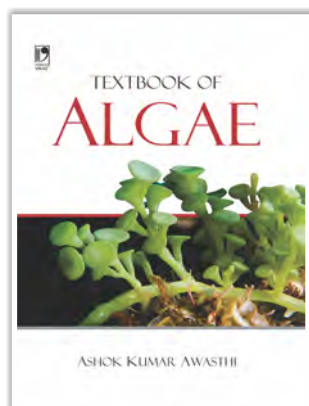
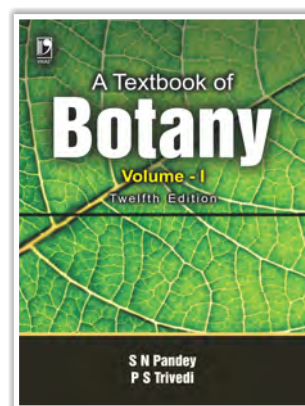
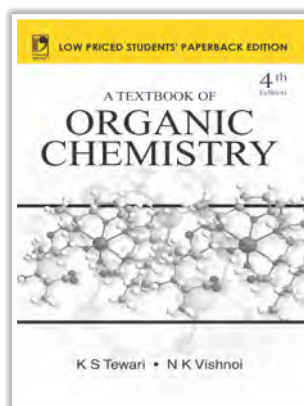
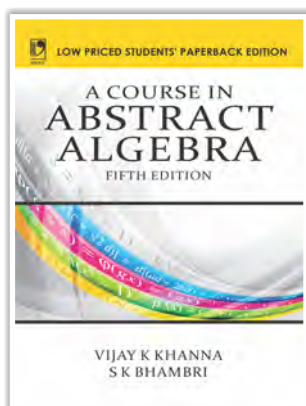
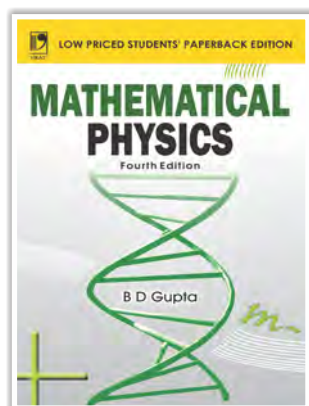
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