

Stockists of



a division of



**SCIENTIFIC INTERNATIONAL**

(Publishers & Distributors)

4850/24, Ansari Road, Daryaganj, New Delhi-110002

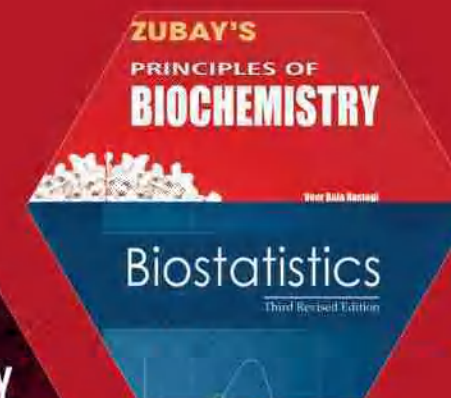
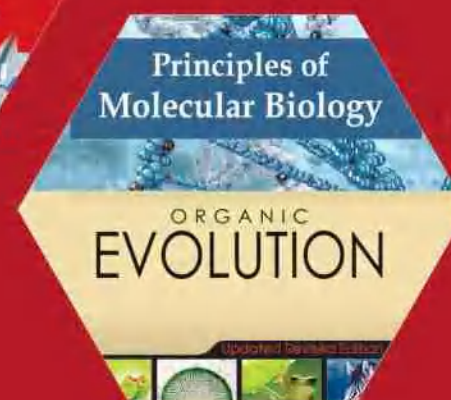
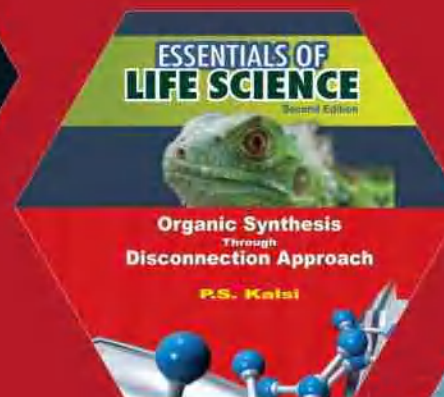
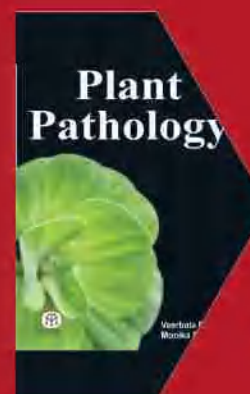
Ph.: 011-23287580, 23287584, 47148284, 43512984

Email: [info@siplind.com](mailto:info@siplind.com)

Fax: 91-11-23286096

[www.siplind.com](http://www.siplind.com)

# CATALOGUE 2016





## Invitation to Authors

Established in 1993, MedTech is the leading publisher of India. It deals with books on various disciplines like:

- *Agricultural Sciences*
- *Animal Sciences*
- *Biological Sciences*
- *Biotechnology*
- *Chemistry*
- *Dentistry*
- *Dictionaries*
- *Education*
- *Engineering and Technology*
- *Environmental Sciences*
- *Food Science*
- *General*
- *Geography*
- *Life Sciences*
- *Mathematics*
- *Medical Sciences*
- *Nursing Science*
- *Pharmaceutical Sciences*
- *Physics*
- *Psychology & Sociology*

MedTech always entertains good academicians from internationally renowned universities/institutions to get their books published from them. Its dedicated team of editors/production specialists will ensure that books are published as per the international standard to the maximum satisfaction of their authors and are marketed both in India and abroad.

If you have any manuscript with you in the subject cited above, we can consider it for publication. Kindly feel free to write to the editor using the e-mail [info@siplind.com](mailto:info@siplind.com) providing us the content, salient features, market potential and your background as the author of manuscript.

Email: [info@siplind.com](mailto:info@siplind.com)



Engaging Sciences—Developing Minds!

### Head Office

4850/24, Ansari Road, Daryaganj, New Delhi-110002  
Ph.: 011-23287580, 23287584, 47148284, 43512984  
Email: [info@siplind.com](mailto:info@siplind.com)  
Fax: 91-11-23286096  
Web: [www.siplind.com](http://www.siplind.com)

**Ramesh Wadhera**, Vice President  
Mobile No.: +91 9811690732  
E-mail: [info@siplind.com](mailto:info@siplind.com)

**S.K. Chawla**, Vice President (Export)  
Mobile No.: +91 8750855090  
E-mail: [chawla@siplind.com](mailto:chawla@siplind.com)

**Rajesh Prasad**, Head, e-commerce,  
Spl. Children books & sales  
Mobile No.: +91 9810217319  
E-mail: [rj@siplind.com](mailto:rj@siplind.com)

**Arpit Singh**, Sr. Sales—operations (Export)  
Mobile No.: +91 9899739038  
E-mail: [arpit@siplind.com](mailto:arpit@siplind.com)

### Branch Offices

House No. 31, 1st Floor, KKB Road, Chenikuthi,  
Opp. Sirdi Sai Bidya Mandir High School  
PO-Silpukhuri, District-Kamrup,  
Guwahati-781003, Ph.: 09435709747

7, Kohinoor Flats, Lukes Lane, Ambujavilasam Road,  
Thiruvananthapuram-695001  
Ph.: 09895092553, 0471-4000057/58,  
E-mail: [kerala@siplind.com](mailto:kerala@siplind.com)

127/G, Manicktala Main Road, Kankurgachi,  
Near Yogodyan, Kolkata-700054  
Ph.: 09433335049, 033-23204041,  
E-mail: [debashisdas@siplind.com](mailto:debashisdas@siplind.com)

### Resident Representatives

70, 8th Main, 3rd Cross, Thigalarapalya, Hoodi,  
Mahadevpura PO, Bengaluru-560048  
Ph.: 09886285836  
E-mail: [satyajitmondal@siplind.com](mailto:satyajitmondal@siplind.com)

**Jijo Kuriakose**, Sr. Sales Head (Domestic)  
E-mail: [info@siplind.com](mailto:info@siplind.com)

**S.K. Ahuja**, Sales Manager  
E-mail: [info@siplind.com](mailto:info@siplind.com)

**Sohan Singh Negi**, Sales & Promotion  
Mobile No.: +91 9868349557  
E-mail: [Promotions@siplind.com](mailto:Promotions@siplind.com)

**Manohar Gusain**, Sales Executive  
Mobile No.: +91 8800355722  
E-mail: [manohar@siplind.com](mailto:manohar@siplind.com)

### For Publishing Enquiries, Please Contact:

**Vinod Chauhan**, Publishing Head  
Mobile No.: +91 9999196448  
E-mail: [chauhan@siplind.com](mailto:chauhan@siplind.com)

**Sunil Kumar Panda**, Chief Editor  
Mobile No.: +91 8826334721  
E-mail: [panda.sunil@siplind.com](mailto:panda.sunil@siplind.com)

Browse & order online: [www.siplind.com](http://www.siplind.com)



*Engaging Sciences–Developing Minds!*

**M**edTech is a rapidly growing academic publisher with a wide range of academic disciplines. Scientific International publishes books under the imprint of MedTech. These books are written by eminent authors from India and from around the world with enviable track record in respect of their academic excellence as well as pedagogical approach.

MedTech is a leading publisher, publishes high quality books in all scientific fields including but not limited to Life Sciences, Food Sciences, Biological Sciences, Animal Sciences, Pharmaceutical Sciences, Environmental Sciences, Engineering, Medical Sciences, Physics, Chemistry, Mathematics, Computer Sciences, Agricultural Sciences, Dentistry, Geography, Psychology, Sociology, Veterinary Sciences etc. All the books are suitably edited by the dedicated team of editors and are produced as per international standard.

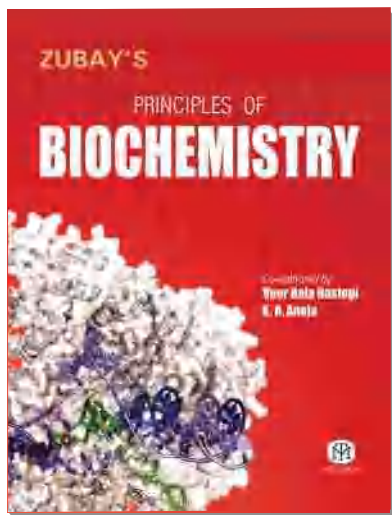
Our mission is to develop the highest quality of knowledge-based products and services for the academics, scientific, professionals, researchers and student communities worldwide. We are based in Delhi and have branches in all major metropolitan cities of India. We have a growing list of customers which includes wholesalers, retailers, institutions and library suppliers from South Asia, Southeast Asia, Middle-East, Africa and a part of Oceania. Over the years, we have built a very strong domestic and international presence.

**Browse & order online: [www.siplind.com](http://www.siplind.com)**



Engaging Sciences—Developing Minds!

*Coming with world's Renowned Authors*

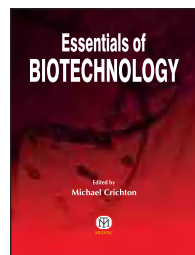
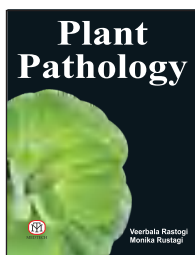
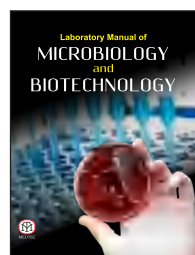
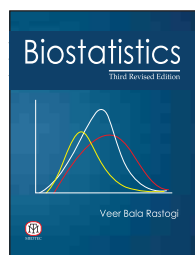
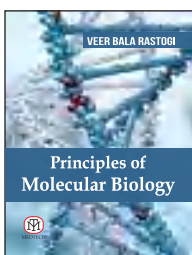
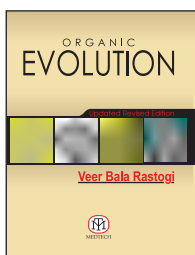
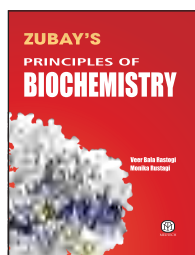


*Zubay's*  
PRINCIPLES OF  
**BIOCHEMISTRY**

by

**Veer Bala Rastogi**  
**K. R. Aneja**

*Outstanding Life Sciences Titles*



Email: [info@siplind.com](mailto:info@siplind.com)



*Engaging Sciences–Developing Minds!*

## Contents

---

• Agricultural Sciences.....	2-13
• Animal Sciences.....	14
• Biological Sciences.....	15-16
• Chemistry.....	17-20
• Dentistry.....	21-23
• Dictionaries .....	24
• Education.....	25-26
• Engineering and Technology.....	27-37
• Environmental Sciences.....	38-44
• Food Science.....	45-47
• General.....	48
• Geography.....	49
• Life Sciences.....	50-64
• Mathematics.....	65
• Medical Sciences.....	66-73
• Nursing Science.....	74-75
• Pharmaceutical Sciences.....	76-78
• Physics.....	79-83
• Psychology & Sociology.....	84-85
• MedTech Forthcoming Titles.....	86-90





## Agricultural Sciences

### Fundamentals of Agriculture

Sourajit Mustafee



#### Contents

♦ The environment ♦ Solar radiation and temperature ♦ Rainfall, humidity, evaporation and wind ♦ Australian climates ♦ Introducing soils ♦ Texture ♦ Structure ♦ Soil water ♦ Soil air and soil colour ♦ Soil temperature ♦ Soil organisms ♦ Organic matter ♦ Soil nutrients ♦ Soil formation ♦ Soil types ♦ Soil fertility and management ♦ Soil erosion ♦ Agricultural zones of eastern and south-eastern Australia ♦ Introduction ♦ How crops grow ♦ Competition ♦ Factors of crop production ♦ Farm machinery ♦ Wheat ♦ Other cereals ♦ The coarse grains ♦ Lucerne ♦ Potatoes ♦ Sugar cane and sundry crops ♦ Oilseeds ♦ Fruit growing ♦ Pasture production ♦ Fodder conservation ♦ History of farm animals ♦ Anatomy and physiology of sheep ♦ Anatomy and physiology of birds ♦ Reproduction ♦ Birth and lactation ♦ Growth and development ♦ Nutrition ♦ Animal disease ♦ Genetics ♦ Animal behaviour ♦ The poultry industry ♦ The pig industry ♦ Sheep ♦ Beef cattle ♦ Dairying ♦ Chemical agriculture.

Edn. 1st (2014); 368 pp; PB; 978-93-84007-01-0; ₹ 425, US \$ 10.95

### Farm Power and Machinery Management (Best Seller)

Donnell Hunt



#### Contents

##### Part I: Economic Performance

- ♦ Machine Performance ♦ Power Performance
- ♦ Operator Performance.

##### Part II: Costs

- ♦ Cost Determination.

##### Part III: Operations: ♦ Tillage ♦ Seedbed ♦ Preparation

- ♦ Cultivation ♦ Seeding Machines ♦ Chemical Application
- ♦ Grain Harvesting ♦ Forage Harvesting ♦ Farm Processing
- ♦ Materials Handling
- ♦ Special Crop Machines.

##### Part IV: Power

- ♦ The Farm Tractor.

##### Part V: Equipment Selection: Machinery Selection

- ♦ Power Selection ♦ Used Equipment.

##### Part VI: Laboratory Exercises.

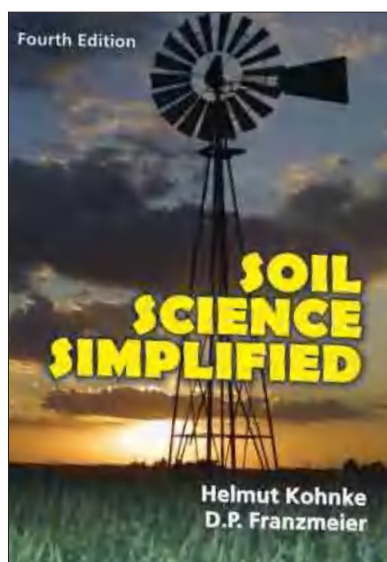
Edn. 10th (2013); 376 pp; PB; 978-93-81714-27-0; ₹ 995, US \$ 25.60



*Engaging Sciences—Developing Minds!*

## Soil Science Simplified

**Helmut Kohnke**



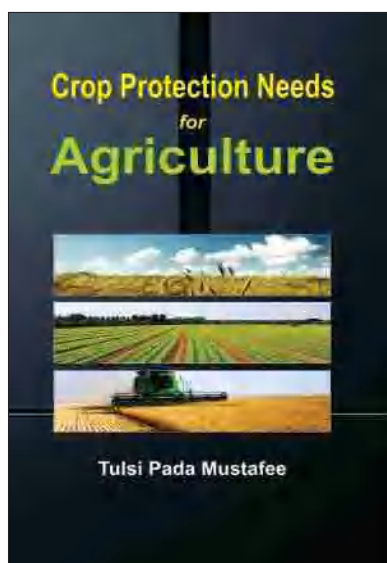
### Contents

- ◆ The Nature and Function of Soil
- ◆ Physical Properties of Soils
- ◆ Soil and Water
- ◆ Chemical Properties of Soils
- ◆ Plant Growth and Plant Nutrition
- ◆ Organic Matter and Microbes of the Soil
- ◆ Factors and Processes of Soil Formation
- ◆ Soil Morphology
- ◆ Soil Classification
- ◆ Soil Surveys
- ◆ Soil Erosion and its Control
- ◆ Soil and the Environment.

Edn. 4th (2013); 172 pp; PB; 978-93-81714-25-6; ₹ 295, US \$ 7.60

## Crop Protection Needs for Agriculture

**Tulsi Pada Mustafee**



### Contents

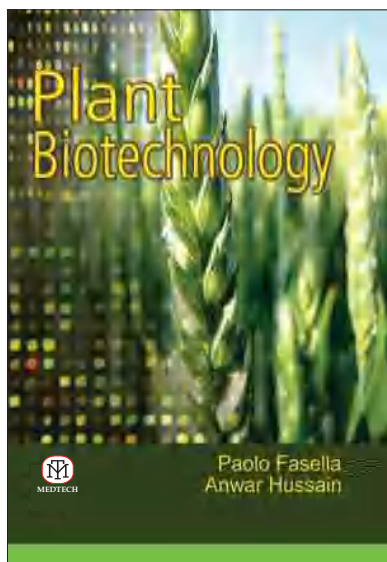
- ◆ General Principles and Methods
- ◆ Microorganisms in relation to Vegetable Processing
- ◆ Tin, Glass, and Plastic Containers
- ◆ Harvesting Handling, and Storing Vegetables
- ◆ Preparing Vegetables for Processing
- ◆ Canning of Vegetables
- ◆ Vegetable Juices, Sauces, and Soups
- ◆ Freezing of Vegetables
- ◆ Vegetables Dehydration
- ◆ Pickling and Fermenting of Vegetables
- ◆ Grades and Standards
- ◆ Quality Control
- ◆ Sanitation and Waste Management
- ◆ Composition and Nutritive Value of Raw and Processed Vegetables
- ◆ Storage Life and Quality Retention
- ◆ Computerized Process Control—General Principles
- ◆ Computers in Food Processing.

Edn. 1st (2016); 300 pp; PB; 978-93-85998-00-3; Price: TBA



## Plant Biotechnology (Best Seller)

Paolo Fasella



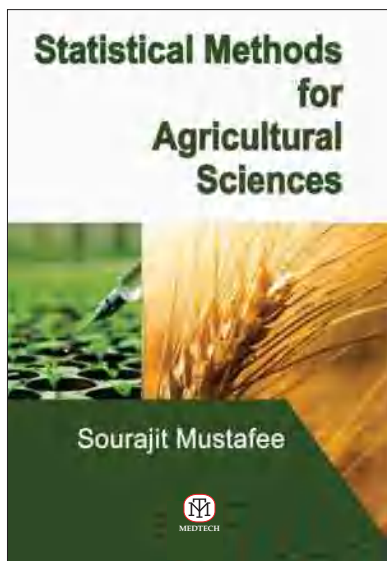
### Contents

♦ Overview of Plant Biotechnology ♦ Plant Cell Culture and Development ♦ Micropropagation Principles and Practices ♦ Virus Free Plants ♦ Germplasm Conservation and Storage ♦ Biochemicals from Cultured Plants Cells ♦ Haploid Production and Uses ♦ Embryo Culture and in vitro Pollination ♦ Somatic Hybridisation and Cybridisation ♦ Plant Cell Culture and Development ♦ Genes and Genomes ♦ Gene Action and Its Regulation ♦ Recombinant DNA Technology ♦ Transgenic Plants ♦ Genome Mapping ♦ Genomics and Bioinformatics ♦ Molecular Markers and their Applications ♦ Pharmaceutical Proteins in Plants ♦ Crop Biotechnology in India ♦ Plants as Enzyme Factories ♦ Forestry ♦ Exotic Pest Plants ♦ Cotton and Biotechnology ♦ Genetically Engineered Foods ♦ Plant Biotechnology in Developing Countries ♦ Bioethics and Biosafety ♦ Intellectual Property Rights.

Edn. 1st (2014); 524 pp; HB; 978-93-81714-75-1; ₹ 2995, US \$ 77.00

## Statistical Methods for Agricultural Sciences

Sourajit Mustafee



### Contents

**Part 1: Descriptive Statistics in Agriculture**  
♦ Introduction ♦ Descriptive Statistical Measures  
**Part 2: Inferential Statistics in Agriculture**  
♦ Probability Theory ♦ An Introduction to Sampling Concepts  
♦ Estimation of Parameters: Means and Percentages  
**Part 3: Tests of Comparison: Parametric Methods**  
♦ Hypothesis Testing: One-Sample  
♦ Hypothesis Testing: Two-Sample  
♦ Analysis of Variance  
**Part 4: Nonparametric Methods**  
♦ Chi-Square Analysis  
♦ Additional Nonparametric Methods  
**Part 5: Test of Association and Prediction**  
♦ Simple Linear Regression and Correlation  
♦ Multiple Regression  
**Part 6: Analysis of Change Over Time**  
♦ Time Series Analysis ♦ Index Numbers.

Edn. 1st (2014); 416 pp; PB; 978-93-84007-02-7; ₹ 495, US \$ 12.75

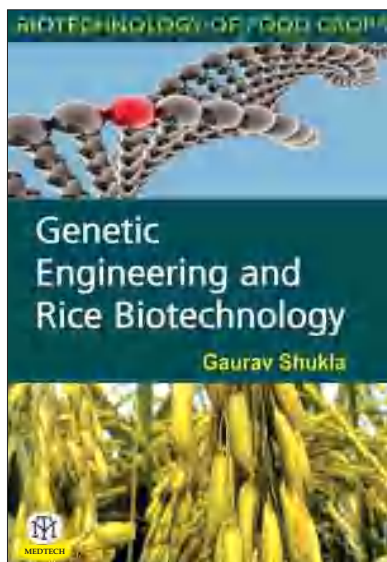




*Engaging Sciences—Developing Minds!*

## Genetic Engineering and Rice Biotechnology

Gaurav Shukla



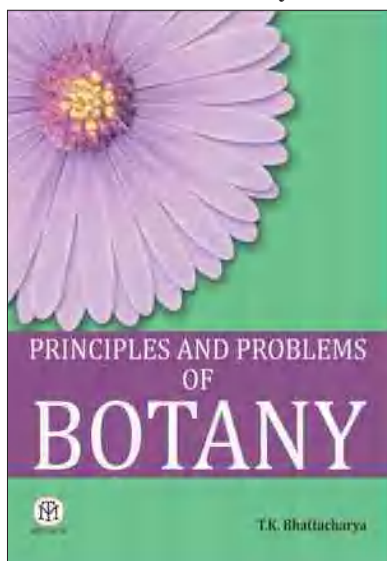
### Contents

- ♦ Rice as a Global Crop
- ♦ Callus and Suspension Cultures
- ♦ Rice Protoplasts
- ♦ Rice Transformation
- ♦ Rice Genes Introduced into Heterologous Systems.

Edn. 1st (2014); 224 pp; PB; 978-93-84007-10-2; ₹ 395, US \$ 10.15

## Principles and Problems of Botany

T.K. Bhattacharya



### Contents

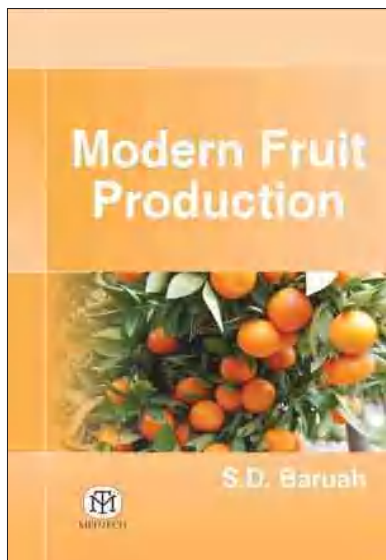
- ♦ The Science of Botany
- ♦ Introductory Survey
- ♦ The Cell
- ♦ Functions of Root
- ♦ Functions of Leaf
- ♦ The Stem and its Functions
- ♦ Metabolism
- ♦ Growth
- ♦ Development & Morphogenesis (Experimental Morphology)
- ♦ The Plant and its Environment
- ♦ Reproduction
- ♦ Heredity and Variation ♦ Plant Evolution
- ♦ The Plant Kingdom ♦ The Thallophyta
- ♦ The Thallophyta ♦ The Bryophyta
- ♦ Vascular Plants (Tracheophyta) ♦ Vascular Plants (Lycopsida)
- ♦ Vascular Plants (Sphenopsida) ♦ Vascular Plants (The Pteropsida)
- ♦ The Gymnospermae ♦ The Angiospermae

Edn. 1st (2016); 372 pp; PB; 978-93-84007-90-4; ₹ 495, US \$ 12.73



## Modern Fruit Production

S.D. Baruah



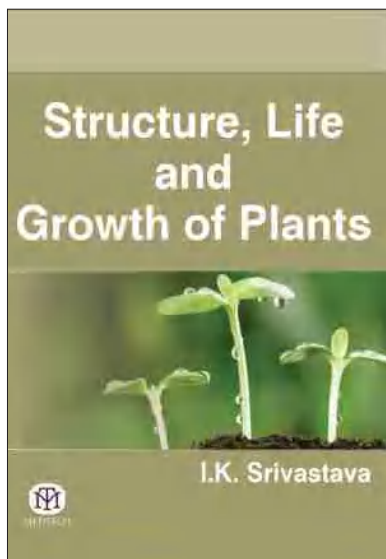
### Contents

- ◆ The Fruit Industry
- ◆ The Plant and its Parts
- ◆ Factors Affecting
- ◆ Flower Formation
- ◆ Site and Soil for the Fruit Plantation
- ◆ Laying Out and Planting the Orchard
- ◆ Cultural Practices
- ◆ Fertilizers and Manures for the Plants
- ◆ Water Relations of Fruit Plants
- ◆ Pruning of Fruit Plants
- ◆ Fruits Setting
- ◆ Fruit Thinning and Alternate Bearing
- ◆ The Handling and Storage of Fruits
- ◆ Winter Injury
- ◆ Nutrient Deficiencies and Physiological Disorders
- ◆ Propagation and Stocks
- ◆ Orchard, Vineyard, and Small Fruits Costs

Edn. 1st (2016); 588 pp; PB; 978-93-85998-01-0; Price: TBA

## Structure, Life and Growth of Plants

I.K. Srivastava



### Contents

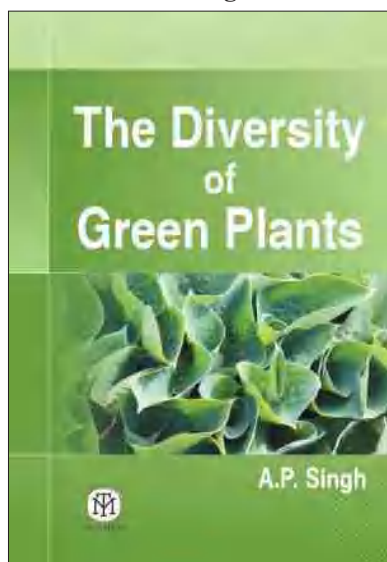
- ◆ Aids to the Study of Botany ◆ Departments of Science ◆ Stages of Plant Life ◆ Term of Plant Life ◆ The Flower ◆ Plan of the Flower.—The Typical Flower ◆ Anomalous Flowers ◆ Of the Floral Envelopes, or Perianth ◆ Forms of the Perianth ◆ Attributes of the Essential Organs ◆ The Pistils—Its Parts ◆ The Ovules ◆ The Fruit — Pericarp — Dehiscence ◆ Forms of the Pericarp ◆ The Seed ◆ Germination ◆ The Root, or Descending Axis—Forms ◆ Of the Stem, or Ascending Axis ◆ Forms of the Leaf-Stems, aerial, caulescent ◆ Forms of Scale-Stems, acaulescent ◆ The Leaf-Bud ◆ Venation of the Leaf —Phyllotaxy ◆ Morphology of the Leaf— Venation ◆ Forms of Leaves. (Morphology) ◆ Forms of Compound Leaves ◆ Transformations of the Leaf ◆ Metamorphosis of the Flower ◆ Inflorescence — Special Forms ◆ The Epidermal System ◆ The Ligneous System ◆ Vegetation, or the Physiology of Plant Life ◆ Fertilization ◆ Pollenization ; Cross-fertilization ◆ Absorption ◆ Circulation ◆ Transpiration and Respiration ◆ General Principles of Classification ◆ The Natural System ◆ Botanical Analysis ◆ Rules for Nomenclature

Edn. 1st (2016); 451 pp; PB; 978-93-85998-02-7; Price: TBA



## The Diversity of Green Plants

A.P. Singh



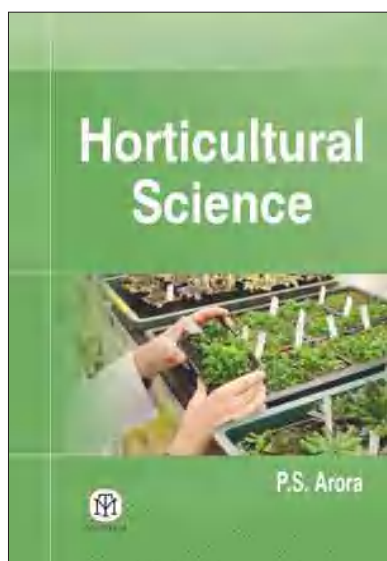
### Contents

- ◆ The Principles Governing the Evolution of Autotrophs
- ◆ The Algae, I
- ◆ The Algae, II
- ◆ The Bryophyta
- ◆ The Tracheophyta, I
- ◆ The Tracheophyta, II
- ◆ The Tracheophyta, III
- ◆ The Tracheophyta, IV

Edn. 1st (2016); 280 pp; PB; 978-93-85998-03-4; Price: TBA

## Horticultural Science

P.S. Arora



### Contents

- ◆ Protein—Carbohydrate Relationship
- ◆ Growing Plants in Sand Culture
- ◆ Photoperiodism
- ◆ Nitrate Assimilation
- ◆ Ammonium Assimilation and Urea
- ◆ Protein Synthesis and Re-Utilization
- ◆ Photoperiod, Temperature, Light, Other Factors
- ◆ Carbohydrates
- ◆ Nutrient and Soil Solutions
- ◆ Oxygen Deficiency in Soil
- ◆ Temperature Effects
- ◆ Ion Interrelations
- ◆ Macro-Nutrient Deficiencies (other than Nitrogen)
- ◆ Micro-Nutrient Deficiencies
- ◆ The Field Log—A Useful Audit

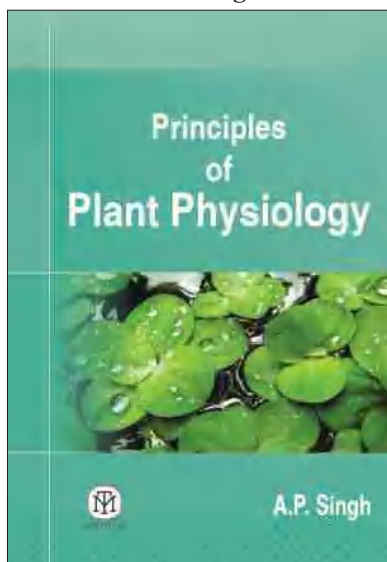
Edn. 1st (2016); 120 pp; PB; 978-93-85998-04-1; Price: TBA





## Principles of Plant Physiology

A.P. Singh



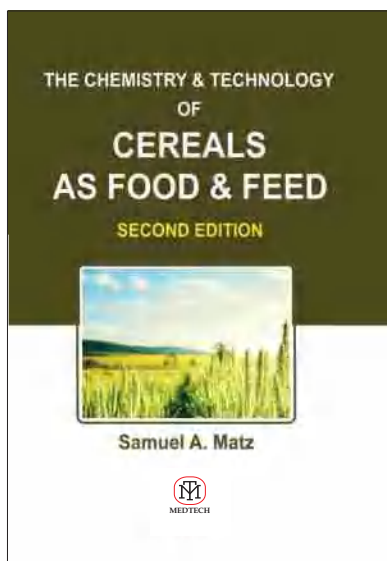
### Contents

♦ Place of Plant Physiology; Classification of the Botanical Sciences  
♦ The Cell; The Colloidal Condition ♦ Photosynthesis: General ♦ The Determining Factors in Photosynthesis ♦ Chemistry of Chlorophyll: The Carotenoids ♦ The Photosynthetic Process ♦ Other Ways of Procuring Food Among the Higher Plants ♦ Nutrition in the Lower Plants; Chemosynthesis ♦ Nitrogen Assimilation; The Nitrogen Cycle ♦ Nutritive and Stimulative Functions of Salts ♦ The Balancing Function of Salts: Ions and Antagonism ♦ The Carbohydrates ♦ Fats, Waxes, and Lipids ♦ Proteins ♦ Allied and Miscellaneous Products ♦ Enzymes ♦ Hormones, Vitamins, Auximones ♦ Diffusion of Gases ♦ Osmosis and Imbibition ♦ Loss of Water ♦ The Ascent of Sap ♦ Digestion ♦ Storage and Translocation ♦ Respiration ♦ Anaerobic Respiration and Fermentation ♦ General Characteristics of Growth ♦ Specific Growth Factors ♦ Irritability; Polarity and Correlation ♦ Movement ♦ Reproduction ♦ Reproductiveness and Seed Germination ♦ Death ♦ Mechanism and Vitalism

Edn. 1st (2016); 448 pp; PB; 978-93-85998-05-8; Price: TBA

## The Chemistry & Technology of Cereals as Food & Feed

Samuel A. Matz



### Contents

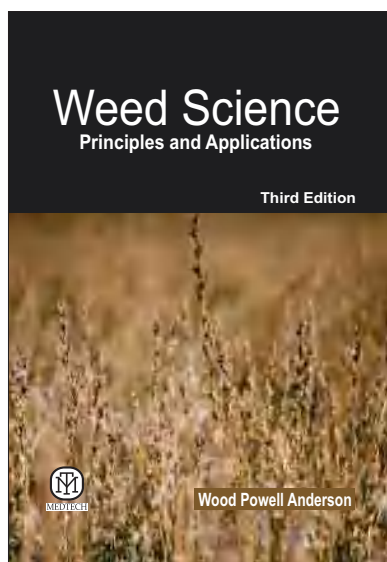
♦ Wheat ♦ Corn  
♦ Oats ♦ Barley  
♦ Rye ♦ Sorghum ♦ Rice  
♦ Other Cereal Grains  
♦ Important Non-cereal Grains  
♦ Feed Manufacturing  
♦ Milling of Wheat and Rye  
♦ Commercial Baking Technology  
♦ Partially Prepared Bakery Products  
♦ Pasta Technology  
♦ Wet and Dry Milling of Corn  
♦ Processing of Rice  
♦ Malting  
♦ Brewing and Distilling  
♦ Breakfast Cereals  
♦ Snack Food  
♦ Special Dietary Foods and Ingredients.

Edn. 2nd (2014); 772 pp; HB; 978-93-81714-65-2; ₹ 2095, US \$ 53.88



## Weed Science—Principles and Applications

Wood Powell Anderson



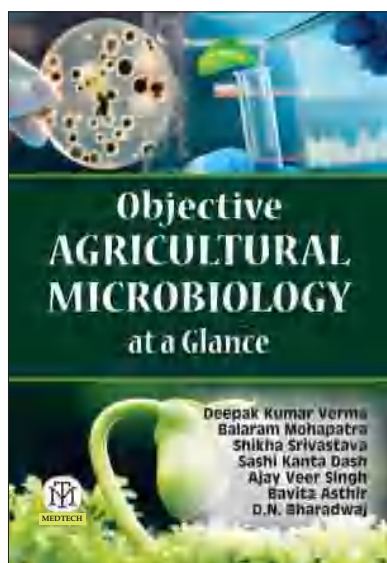
### Contents

◆ Weeds ◆ Weed Ecology ◆ Methods of Weed Control ◆ Conservation Tillage Systems ◆ Herbicides and the Soil ◆ Entry and Movement of Herbicides in Plants ◆ Modes and Sites of Action of Herbicides ◆ Herbicide-Plant Selectivity ◆ Weed Resistance and Transgenic Crop Tolerance ◆ Formulations and Surfactants ◆ Sprayer Calibration and Herbicide Calculations ◆ Acid Amide Herbicides ◆ Aryloxyphenoxypropionate Herbicides ◆ Benzonitrile Herbicides ◆ Bipyridinium Herbicides ◆ Cyclohexanedione Herbicides ◆ Dinitroaniline Herbicides ◆ Diphenyl Ether Herbicides ◆ Growth Regulator-type Herbicides ◆ Imidazolinone Herbicides ◆ Methanearsonate Herbicides ◆ Phenylcarbamate Herbicides ◆ Phenyl Pyridazinone Herbicides ◆ Phthalic Acid Herbicides ◆ Sulfonylurea Herbicides ◆ Thiocarbamate Herbicides ◆ Triazine Herbicides ◆ Uracil Herbicides ◆ Urea Herbicides ◆ Nonfamily Herbicides ◆ Weed Control in Selected Crops: An Introduction ◆ Field Corn ◆ Cotton ◆ Peanuts ◆ Rice ◆ Grain Sorghum ◆ Soybeans ◆ Sugar Beets ◆ Wheat ◆ Lettuce ◆ Onions ◆ Potatoes ◆ Sweet Corn ◆ Tomatoes ◆ Turfgrass ◆ Pastures and Rangelands.

Edn. 3rd (2015); 408 pp; PB; 978-93-84007-57-7; ₹ 695, US \$ 17.90

## Objective Agricultural Microbiology at a Glance

D.K. Verma



### Contents

◆ History of Microbiology  
◆ Microbial Taxonomy  
◆ Morphology and Cytology  
◆ Microbial Ecology  
◆ Microbial Physiology  
◆ Microbial Genetics  
◆ Microbial Biotechnology  
◆ Food Microbiology  
◆ Soil Microbiology  
◆ Environmental Microbiology  
◆ Microbiological Techniques

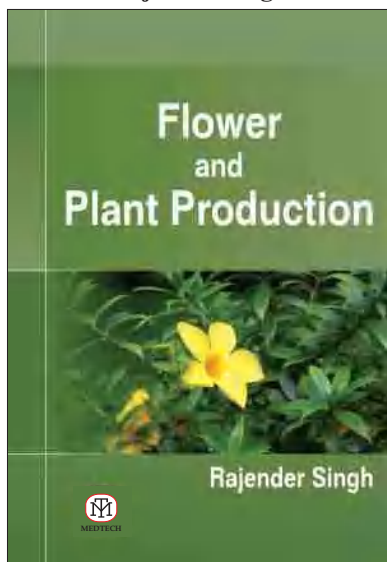
Edn. 1st (2015); 200 pp; PB; 978-93-84007-46-1; ₹ 175, US \$ 4.50



*Engaging Sciences—Developing Minds!*

## Flower and Plant Production

**Rajender Singh**



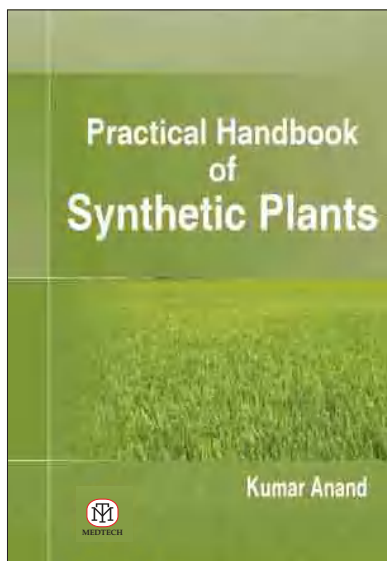
### Contents

- ◆ What is a Manager?
- ◆ Management of Business Procedures
- ◆ Management of the Physical Facilities
- ◆ Crop Rotations and Scheduling
- ◆ Management of the Greenhouse
- ◆ Soil Environment
- ◆ Management of the Greenhouse
- ◆ Air Environment
- ◆ Management of Marketing
- ◆ Index

Edn. 1st (2016); 244 pp; PB; 978-93-84007-84-3; ₹ 495, US \$ 12.73

## Practical Handbook of Synthetic Plants

**Kumar Anand**



### Contents

- ◆ Introduction
- ◆ Weed Control
- ◆ Vegetative Propagation and transplanting
- ◆ Prevention of Growth in Stored Plant Material
- ◆ Preventing Fruit-drop
- ◆ Ripening Fruit
- ◆ Improving Fruit-set and the Production of Seedless Fruit
- ◆ Other Plant Responses to Growth-regulating Substances
- ◆ Key to Abbreviations of firm names used in lists of commercial preparations.

Edn. 1st (2016); TBA pp; PB; 978-93-85998-06-5; Price: TBA

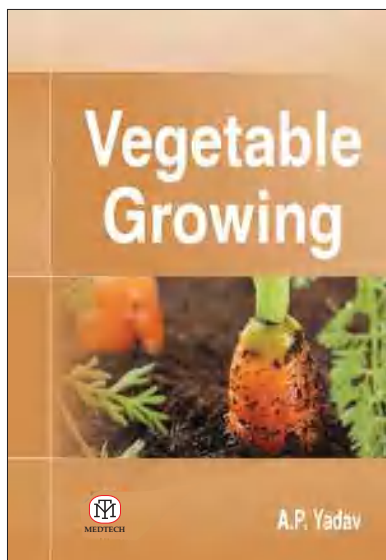




*Engaging Sciences—Developing Minds!*

## Vegetable Growing

A.P. Yadav



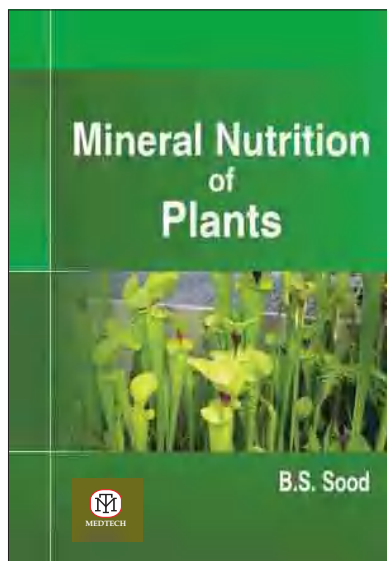
### Contents

- ◆ Vegetable Seed Production
- ◆ Perennial Vegetable Crops
- ◆ Corn Crops
- ◆ Root Crops
- ◆ Legume or Pulse Crops
- ◆ Bulb Crops
- ◆ Salad Crops
- ◆ Green Crops
- ◆ Cole Crops
- ◆ Potato
- ◆ Sweet potato
- ◆ Solanaceous Fruits
- ◆ Vine Crops
- ◆ Miscellaneous Vegetables, Mushrooms, and Herbs
- ◆ Insect and Disease Control
- ◆ References

Edn. 1st (2016); TBA pp; PB; 978-93-85998-07-2; Price: TBA

## Mineral Nutrition of Plants

B.S. Sood



### Contents

- ◆ World Food Possibilities and Fertility Status of our Soils ◆ Soil as a medium for Plant Growth ◆ The Activities of Cations held by Soil Colloids and the Chemical Environment of Plant Roots ◆ The Availability of Soil Anions ◆ Contact Phenomena between Adsorbents and their Significance in Plant Nutrition ◆ The Effect of Soil Physical Properties on Nutrient Availability ◆ Role of Soil Microorganisms in Nutrient Availability ◆ The Nature of the Process of Inorganic Solute Accumulation in Roots ◆ The Mechanism of Ion Absorption ◆ The Translocation of Minerals in Plants ◆ Control of Nitrogen Effects on McIntosh Apple Trees in New York ◆ Production of Vegetable Crops for the Canning Industry ◆ Growth and Function as Criteria in Determining the Essential Nature of Inorganic Nutrients ◆ Mineral Nutrition in Relation to the Ontogeny of Plants ◆ Correlations between Protein-Carbohydrate Metabolism and Mineral Deficiencies in Plants

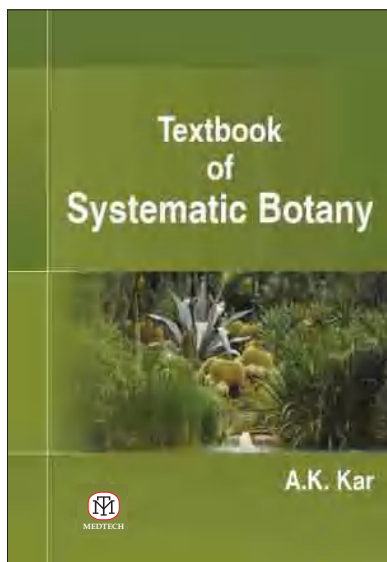
Edn. 1st (2016); 484 pp; PB; 978-93-84007-85-0; ₹ 595, US \$ 15.30



*Engaging Sciences—Developing Minds!*

## Textbook of Systematic Botany

A.K. Kar



### Contents

- ♦ What is Systematic Botany
- ♦ Introduction
- ♦ Evolution in Relation to Taxonomy
- ♦ Methods Used in the Identification of Flowering Plants
- ♦ The Preparation of Herbaria
- ♦ The Terminology of Systematic Botany
- ♦ General Features of Spermatophyta
- ♦ Families of Gymnosperms
- ♦ Families of Dicotyledons
- ♦ Families of Monocotyledons
- ♦ Nomenclature
- ♦ Principles of Taxonomy
- ♦ Systems of Taxonomy
- ♦ The Literature of Systematic Botany
- ♦ Index

Edn. 1st (2016); TBA pp; PB; 978-93-85998-08-9; Price: TBA

## Essentials of Economic Botany

R.L. Prasad



### Contents

- ♦ Seeds and Seedlings
- ♦ Roots ♦ Stems and Buds
- ♦ Leaves ♦ The Flower
- ♦ Reproduction ♦ Fruits and Seeds
- ♦ Anatomy of Stems, Roots and Leaves
- ♦ Chemical Composition of the Plant
- ♦ Plant Foods and Plant Growth
- ♦ The Gymnosperms
- ♦ Ecological Relations
- ♦ Forestry Plant Diseases
- ♦ Plant Breeding
- ♦ Weeds
- ♦ Pteridophytes
- ♦ Bryophytes
- ♦ Thallophytes
- ♦ Important Families of Plants
- ♦ Special Exercises with Important Families of Plants.

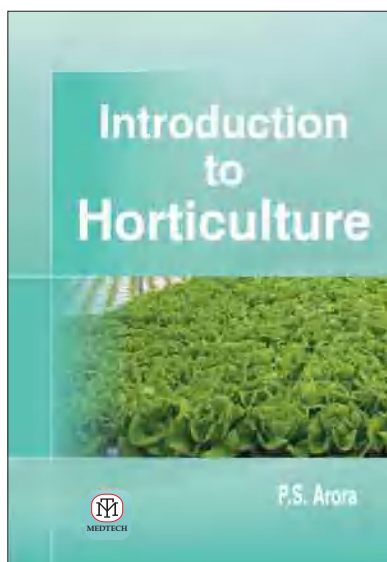
Edn. 1st (2016); 208 pp; PB; 978-93-84007-93-5; ₹ 395, US \$ 10.15



*Engaging Sciences—Developing Minds!*

## Introduction to Horticulture

P.S. Arora



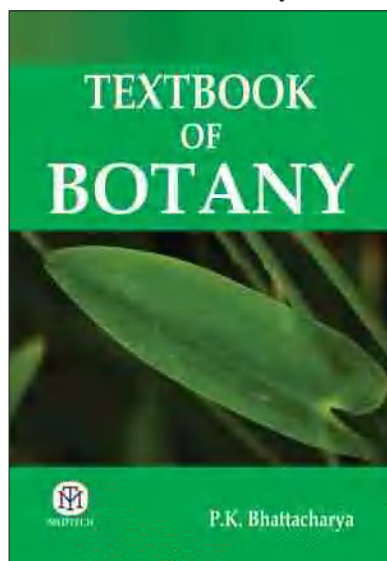
### Contents

♦ A Peck of Apples ♦ How the Blemishes on the Apples Might have been Avoided ♦ Grading and Packing Apples ♦ An Apple Show at the Schoolhouse ♦ A Basket of Peaches ♦ A Basket of Grapes ♦ A Quart of Strawberries ♦ A Pint of Red Raspberries ♦ A Glass of Currant Jelly ♦ Plantation of Trees and Bushes ♦ Care of Fruit Plantations ♦ Pruning Young Fruit Trees ♦ Maintenance Pruning of Bearing Trees ♦ Renovation Pruning of Old Trees ♦ Top Grafting Apple Trees ♦ How an Apple Tree is Produced ♦ How a Peach Tree is Produced ♦ How the Grape is Propagated ♦ The Spray Pump and its Operation ♦ Directions for Making Spray Mixtures ♦ Starting Vegetable Plants in Boxes ♦ The Making and Care of Hotbeds ♦ Transplanting ♦ Planting Seeds ♦ Supplying the Needs of Plants ♦ Planning a Garden ♦ Growing Methods for Different Vegetables: Some Early Spring Crops ♦ Some of the Root Crops ♦ Growing Ripe Onions from Seed ♦ Potatoes ♦ Cabbage ♦ Beans and Corn ♦ Cucumbers and Squashes ♦ Tomatoes

Edn. 1st (2016); 276 pp; PB; 978-93-84007-91-1; ₹ 395, US \$ 10.15

## Textbook of Botany

P.K. Bhattacharya



### Contents

♦ Foliage Leaves: The Light-Relation  
♦ Foliage Leaves: Function, Structure and Protection  
♦ Shoots  
♦ Roots  
♦ Reproductive Organs  
♦ Flowers and Insects  
♦ An Individual Plant in All of its Relations  
♦ The Struggle for Existence  
♦ The Nutrition of Plants  
♦ Plant Societies: Ecological Factors  
♦ Hydrophyte Societies  
♦ Xerophyte Societies  
♦ Mesophyte Societies  
♦ Halophyte Societies  
♦ Index

Edn. 1st (2016); 200 pp; PB; 978-93-84007-92-8; ₹ 395, US \$ 10.15





## Animal Sciences

### Animal Sciences

John R. Campbell



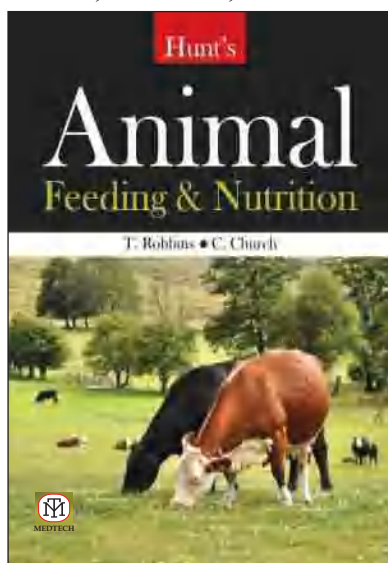
#### Contents

◆ Animal Agriculture ◆ Breeds and Life Cycles of Livestock and Poultry  
◆ Animal Products ◆ Companion Animals ◆ Horses ◆ Aquaculture  
◆ State of Being of Domestic Animals ◆ Fundamental Principles of Genetics  
◆ Principles of Selecting and Mating Farm Animals ◆ Anatomy and Physiology of Farm Animals  
◆ The Application of Endocrinology to Selected Animals and Humans ◆ The Physiology of Growth and Senescence  
◆ Anatomy and Physiology of Reproduction and Related Technologies in Farm Mammals  
◆ Artificial Insemination ◆ Physiology of Lactation ◆ Physiology of Egg Laying  
◆ Ecology and Environmental Physiology ◆ Principles of Nutrition: Plant and Animal Composition  
◆ The Physiology of Digestion in Nutrition ◆ The Nutritional Application of Vitamins to Human and Animal Health.

Edn. 4th (2013); 520 pp; HB; 978-93-81714-26-3; ₹ 1795, US \$ 46.16

### Animal—Feeding & Nutrition

Hunt, C. Church, T. Robbins



#### Contents

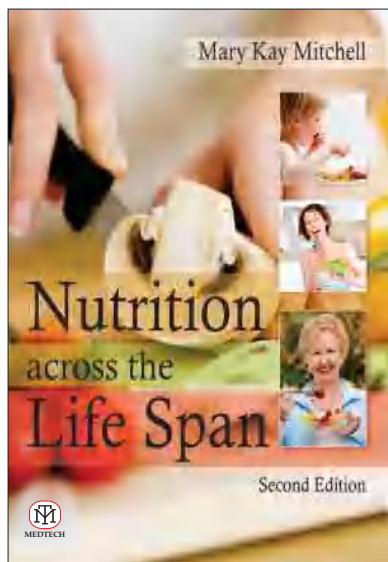
◆ The Animal and Its Food ◆ Carbohydrates ◆ Lipids ◆ Proteins, Nucleic Acids and Other Nitrogenous Compounds ◆ Vitamins ◆ Minerals ◆ Enzymes ◆ Digestion ◆ Metabolism ◆ Evaluation of Foods: Digestibility ◆ Evaluation of Foods: Energy Content of Foods and Energy Partition within the Animal ◆ Evaluation of Foods: Systems for Expressing the Energy Value of Foods ◆ Evaluation of Foods: Protein ◆ Feeding Standards for Maintenance and Growth ◆ Feeding Standards for Reproduction ◆ Lactation ◆ Voluntary Intake of Food ◆ Grass and Forage Crops ◆ Silage ◆ Hay, Artificially Dried Forages, Straws and Chaff ◆ Roots, Tubers and Related By-Products ◆ Cereal Grains and Cereal By-Products ◆ Protein Concentrates ◆ Feed Additives ◆ Animal Nutrition and the Consumers of Animal Products ◆ Appendix I: Solutions to Numerical Questions ◆ Appendix II: Notes on Tables Index

Edn. 1st (2016); 528 pp; PB; 978-93-84007-69-0; ₹ 1095, US \$ 28.16

## Biological Sciences

### Nutrition Across the Life Span

Mary Kay Mitchell



#### Contents

**Part One: Foundations:** Introduction to Nutrition and the Life Span

- ◆ Nutrition Screening and Assessment ◆ Promoting Dietary Change

◆ **Part Two: Reproduction:** Pregnancy

- ◆ High-Risk Pregnancy
- ◆ Lactation and breast-Feeding

**Part Three: Growth and Development:** Nutrition during Infancy

- ◆ The High-Risk Infant
- ◆ Nutrition during Growth: Preschool through Preadolescence
- ◆ Nutrition for Children with Special Needs
- ◆ Nutrition During Adolescence

**Part Four: The Adult Years:** Adulthood

- ◆ Aging and Older Adults

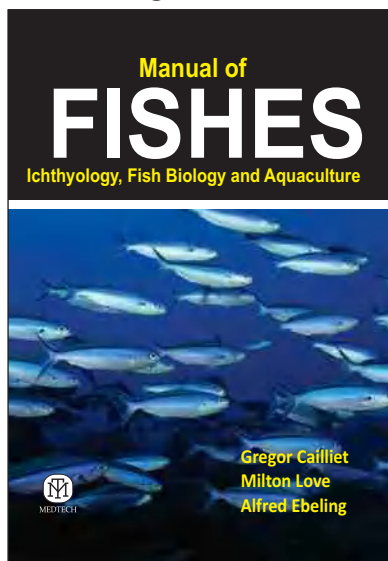
**Part Five: Special Concerns Across The Life Span:** Eating Dilemmas

- ◆ Dietary Restraint, Bingeing, Purging, Excessive Consumption, and Excessive Exercise
- ◆ Nutrition, Physical Activity and Performance

Edn. 2nd ( 2015); 624 pp; PB; 978-93-84007-62-1; ₹ 995, US \$ 25.60

### Manual of Fishes

Gregor Cailliet



#### Contents

**Section One: Morphology of Fishes: Form and Function**

- ◆ Basic Anatomy: External
- ◆ Basic Anatomy: Internal
- ◆ Osteology of Bony Fishes
- ◆ Muscular Morphology of Bony Fishes
- ◆ Exercises in Functional Morphology

**Section Two: Taxonomic Characters in Identification, Variation, and Classification**

- ◆ Finding and Measuring Characters
- ◆ Key Characters and Identification of Taxa
- ◆ Character Trends and Morphological Variation
- ◆ Shared Characters and Classification

**Section Three: Natural History of Fishes: Habitats**

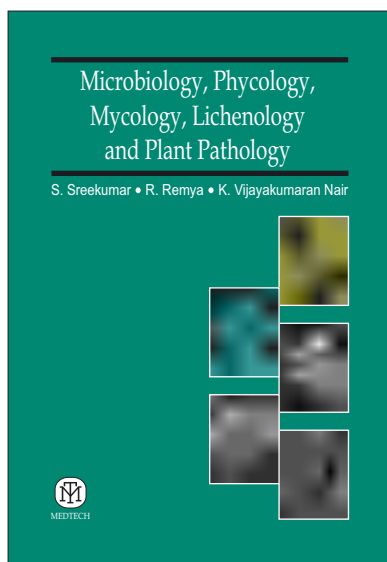
- ◆ Collecting and Survey Techniques
- ◆ Care and Handling of Specimens
- ◆ Age and Growth
- ◆ Feeding ◆ Reproduction
- ◆ Parasites ◆ Anomalous Fishes

Edn. 1st (2015); 204 pp; PB; 978-93-84007-58-4; ₹ 495, US \$ 12.75



## Microbiology, Phycology, Mycology, Lichenology and Plant Pathology

S. Sreekumar



### Contents

#### Part I: Microbiology

- ♦ Introduction
- ♦ Bacteria
- ♦ Viruses
- ♦ Branches of Microbiology

#### Part II: Phycology

- ♦ Introduction ♦ Cyanophyceae
- ♦ Chlorophyceae ♦ Xanthophyceae
- ♦ Bacillariophyceae ♦ Phaeophyceae
- ♦ Rhodophyceae,

#### Part III: Mycology

- ♦ Introduction ♦ Myxomycotina
- ♦ Mastigomycitina ♦ Zygomycotina
- ♦ Ascomycotina ♦ Basidiomycotina ♦ Deuteromycotina

#### Part IV: Lichenology

- ♦ Introduction ♦ Usnea,

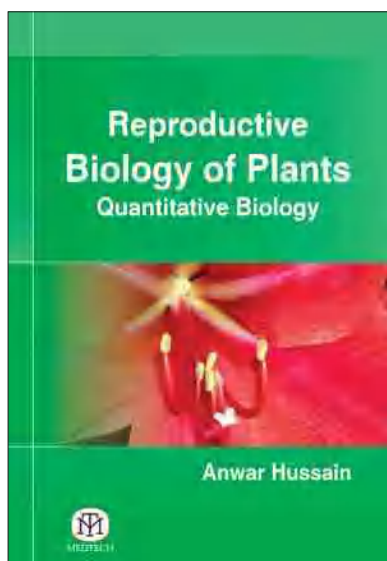
#### Part V: Plant Pathology

- ♦ Introduction ♦ Plant disease control.

Edn. 1st (2015); 320 pp; PB; 978-93-84007-67-6; ₹ 250, US \$ 6.45

## Reproductive Biology of Plants

Anwar Hussain



### Contents

- ♦ Introduction ♦ The significance of seed size and its relation to habitat conditions ♦ The Viability of Seeds from Plants of Diverse Vigour
- ♦ Methods and Terminology ♦ The influence of Soil and Climate on Seed output ♦ The influence of Competition on Reproduction ♦ The Relation between seed number per capsule and Number of capsules per plant ♦ The comparative study of seed output and reproductive capacity
- ♦ Reproduction by seeds in relation to life span ♦ The seed production of parasites, saprophytes and semiparasites ♦ The reproductive capacity of terrestrial orchids ♦ Reproduction in the genus hypericum (St. John's Worts) ♦ Reproduction in the Gentianaceae ♦ The genus linaria (Toadflax) ♦ The Genus Verbascum (Mulleins) ♦ Reproduction in relation to habitat and conditions of colonization ♦ Vegetative Multiplication in relation to competition ♦ Appendix ♦ Summary
- ♦ Bibliography ♦ Index

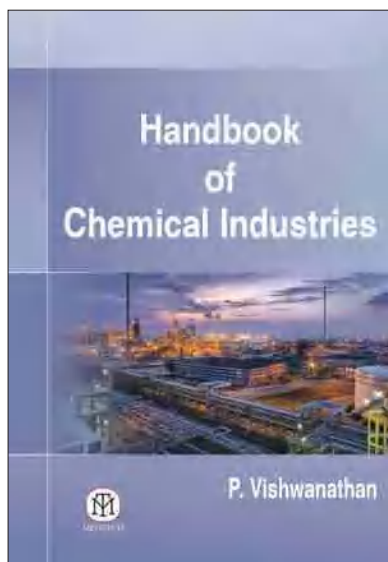
Edn. 1st (2016); 260 pp; PB; 978-93-84007-87-4; ₹ 495, US \$ 12.73



# Chemistry

## Handbook of Chemical Industries

P. Vishwanathan



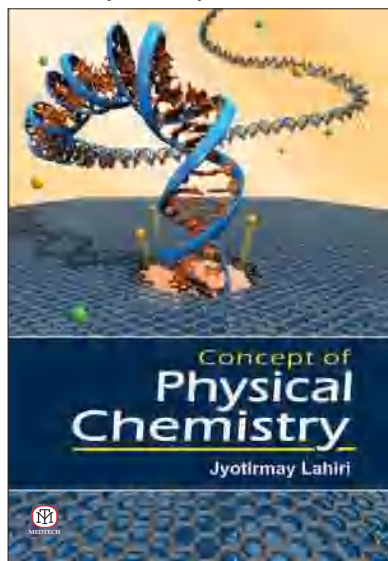
### Contents

- ◆ The Chemical Industry—Introduction, Fertilizers, Pesticides, Food Processing, Soaps and Detergents, Surface Coatings, Glass, Metallurgy, Photography and Copying, Conclusion
- ◆ Chemicals from Petroleum—Introduction, Composition of Petroleum, Analysis of Petroleum, Refinery Operation, Refinery Chemistry, Product Separation and Isolation, Chemical Treatments, Key Petrochemical Building Blocks, Petroleum-Industry Products
- ◆ Industrial Chemistry—Introduction, Economic Considerations, Basic Technology, Vinyl Chloride, Acrylonitrile, Acetaldehyde, Acetic Acid, Ethylene Glycol, Hexamethylenediamine, Terephthalic Acid, Anthraquinone, Maleic Anhydride, Phthalic Anhydride, Phenol, Vinyl Acetate, Methyl Methacrylate, Recapitulation
- ◆ Petrochemistry—Introduction, Acetaldehyde and Aldol Chemistry, The OXO Reaction Acetone and Similar Ketone Chemistry, Vinyl Monomers, Ethylene Oxide and Related Chemistry, Aliphatic Amines, Recapitulation
- ◆ Polymer Chemistry—Introduction, Polypropylene, Polystyrene, Polyvinyl Chloride, Polyvinyl Acetate

Edn. 1st (2016); 348 pp; PB; 978-93-84007-95-9; ₹ 595, US \$ 15.30

## Concept of Physical Chemistry

Jyotirmay Lahiri



### Contents

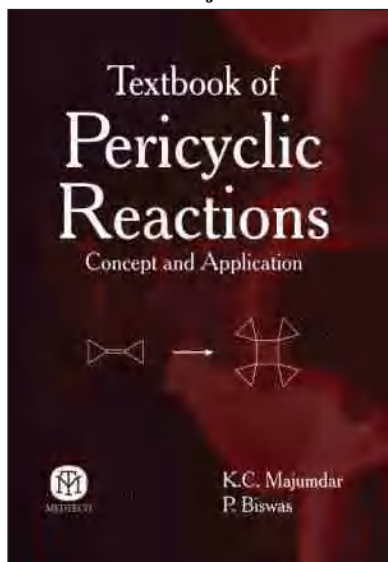
- ◆ Thermodynamics
- ◆ The Second Law of Thermodynamics
- ◆ The Chemical Equilibrium
- ◆ The Kinetic Theory of Gases
- ◆ Ionic Equilibrium (Acid and Bases)
- ◆ Chemical Kinetics
- ◆ Chapter-Wise Worked Out University Problems
- ◆ General Bibliography
- ◆ Glossary
- ◆ Index.

Edn. 1st (2014); 240 pp; PB; 978-93-81714-70-6; ₹ 375, US \$ 9.64



## Textbook of Pericyclic Reactions

K.C. Majumdar



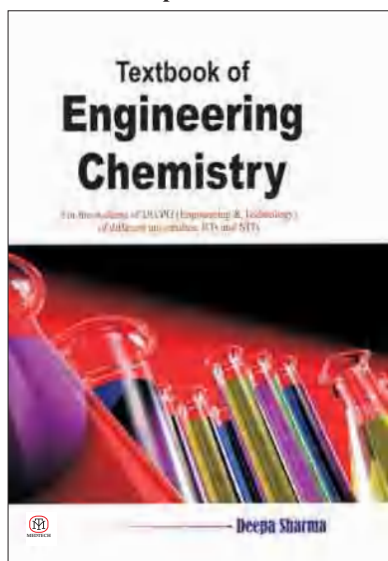
### Contents

- ♦ Introduction
- ♦ Symmetry Properties of Molecular Orbitals
- ♦ Theory of Pericyclic Reactions
- ♦ Cycloaddition Reactions
- ♦ Electrocyclic Reactions
- ♦ Sigmatropic Reactions
- ♦ Site Selectivity and Periselectivity
- ♦ Group Transfer Reactions
- ♦ Hints For Selected Problems.

Edn. 1st (2015); 236 pp; PB; 978-93-84007-37-9; ₹ 350, US \$ 9.00

## Textbook of Engineering Chemistry

Deepa Sharma



### Contents

#### Section I: Organic Chemistry

- ♦ Aromaticity ♦ Hybridization and Atomic Bonding
- ♦ Stereochemistry ♦ Factors Affecting the Reactivity
- ♦ Name and Organic Reactions ♦ Photochemistry.

#### Section II: Physical Chemistry

- ♦ Introduction to Chemical Kinetics ♦ The Phase Rule
- ♦ Catalysis ♦ Electrochemistry
- ♦ Acids and Bases ♦ Lubrication and Lubricants
- ♦ An Introduction to Solid State Chemistry ♦ Surface Chemistry
- ♦ Nuclear Chemistry.

#### Section III: Analytical Chemistry

- ♦ Organic Spectroscopy ♦ Fuels
- ♦ Hardness of Water, its Treatment and Analysis.

#### Section IV: Miscellaneous Topics

- ♦ Polymer Chemistry: Classification, Structure and Uses
- ♦ Nanotechnology in Chemistry
- ♦ Characterisation and Analysis of Material
- ♦ Environmental Chemistry ♦ Coordination Chemistry.

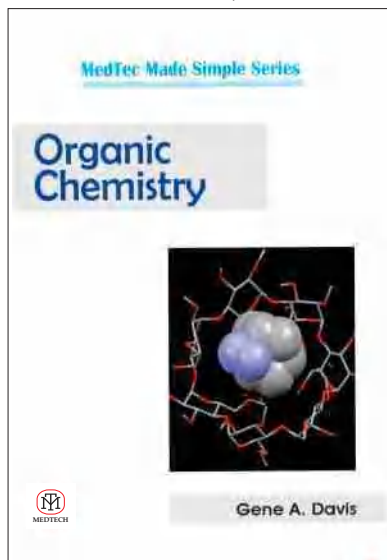
Edn. 1st (2015); 800 pp; PB; 978-93-81714-28-7; ₹ 550, US \$ 14.15



Engaging Sciences—Developing Minds!

## Organic Chemistry

Gene A. Davis, Ph.D.



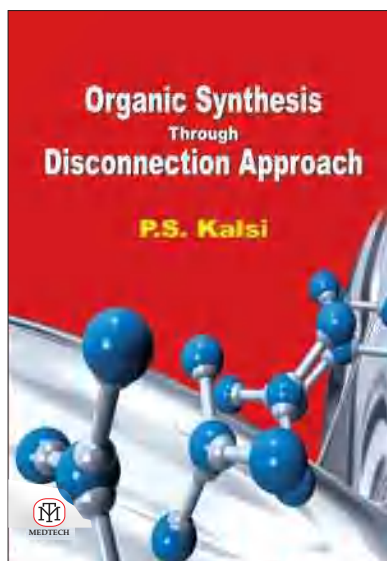
### Contents

- ◆ Atomic Structure ◆ The Octet Rule and Lewis Structures
- ◆ Representing Organic Structural Formulas Covalent Bonds: Energetics and Properties ◆ Bond Length and Bond Strength
- ◆ Electronegativity and Bond Polarity ◆ Formal Charge ◆ Molecular Shapes: Valence Shell Electron Pair Repulsion Theory ◆ Atomic Orbitals
- ◆ Orbital Hybridization ◆ The Functional Groups ◆ Physical Properties and Molecular Structure ◆ Lewis Acids and Bases ◆ Isomers and Stereochemistry ◆ Introduction to Organic Reactions ◆ Organic Reaction Mechanisms: A General Overview ◆ Steric Hindrance ◆ Properties and Reactivity—The Alkane Hydrocarbons ◆ Alkyl Halides: Substitution and Elimination Reactions ◆ The Unsaturated Hydrocarbons: Alkenes and Alkynes ◆ Free-Radical Reactions ◆ Alcohols and Ethers
- ◆ Addition and Substitution Reactions of Aldehydes and Ketones
- ◆ Oxidation and Reduction Reactions of Carbonyl Compounds
- ◆ Carboxylic Acids and Derivatives

Edn. 1st (2013); 224 pp; PB; 978-93-81714-19-5; ₹ 350, US \$ 9.00

## Organic Synthesis Through Disconnection Approach

P.S. Kalsi



### Contents

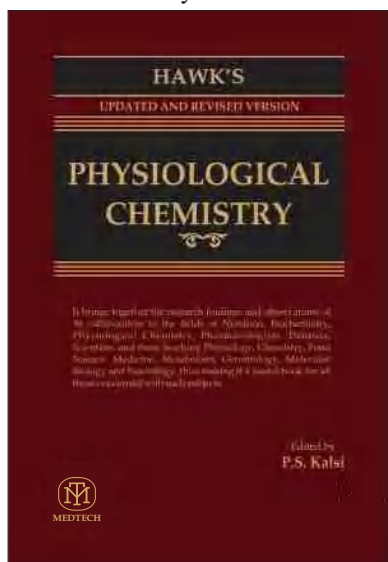
- ◆ Basic Knowledge of Organic Reactions is Key to Understand Retro Synthesis
- ◆ Retro Synthetic Analysis – Choosing Disconnections – Some Examples with More Systematic
- ◆ Synthesis of Carbonyl Compounds
- ◆ Review Problems—Synthesis Retrosynthetic Analysis and Disconnections on Alkynes, Alcohols and Carbonyl Compounds
- ◆ Protection and Deprotection of Some Functional Groups
- ◆ Synthesis of Amines and Related Compounds.

Edn. 1st (2014); 464 pp; PB; 978-93-81714-98-0; ₹ 395, US \$ 10.15



## Hawk's Physiological Chemistry

Edited by **P.S. Kalsi**



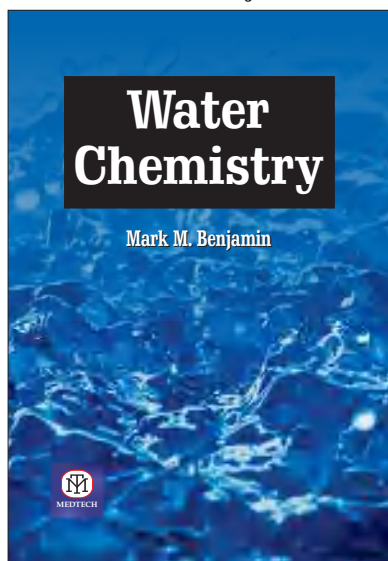
### Contents

♦ Physicochemical principles ♦ Carbohydrates ♦ Proteins: composition and hydrolysis: amino acids ♦ Proteins: structure and general reactions ♦ Proteins: classification and properties ♦ Nucleic acids and nucleoproteins ♦ Muscular tissue ♦ Nervous tissue ♦ Epithelial, connective, and osseous tissues ♦ Endocrine glands ♦ Blood and other body fluids ♦ Milk ♦ Enzymes and their action; cell respiration ♦ Salivary digestion ♦ Gastric digestion and analysis ♦ Bile and liver function ♦ Intestinal digestion and absorption ♦ Feces ♦ Inorganic metabolism ♦ Vitamins and deficiency diseases ♦ Carbohydrate metabolism ♦ Lipid metabolism ♦ Protein metabolism ♦ Metabolism of nucleic acids and nucleoproteins ♦ Biotransformation and detoxication ♦ Energy metabolism ♦ Respiratory exchange and neutrality regulation ♦ Blood analysis ♦ Urine: composition ♦ Urine: quantitative analysis ♦ Isotopes ♦ Appendix ♦ Index

Edn. 14th (2015); 1488 pp; HB; 978-93-84007-36-2; ₹ 1095, US \$ 28.16

## Water Chemistry

Mark M. Benjamin



### Contents

♦ Concepts in Aquatic Chemistry  
♦ Potentials, Energy, and Forces: Ways to Interpret Changes in Physical/Chemical Systems  
♦ Acids and Bases, Part 1  
♦ Acids and Bases, Part 2  
♦ Titrations and Buffers  
♦ Software for Solving Chemical Equilibrium Problems  
♦ Gas/Liquid Equilibrium  
♦ Chemistry of Metals in Aqueous Systems  
♦ Redox Chemistry  
♦ Adsorption Reactions

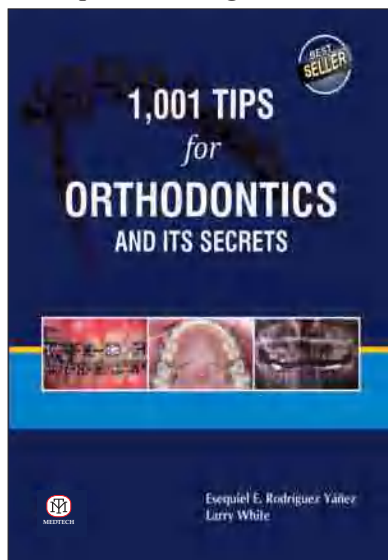
Edn. 1st (2015); 690 pp; HB; 978-93-84007-56-0; ₹ 3995, US \$ 102.75



## Dentistry

### 1,001 Tips for Orthodontics and its Secrets (Best Seller)

Esequiel E. Rodríguez Yáñez



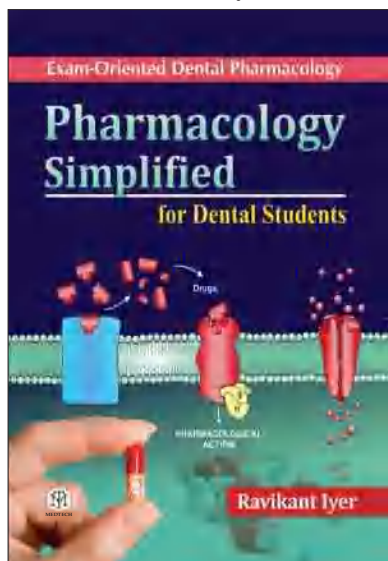
#### Contents

- ◆ Action and Reaction
- ◆ Anchorage
- ◆ Space Closure in Orthodontics
- ◆ Deep Bite
- ◆ Open Bite
- ◆ Cross Bite
- ◆ Distalizers
- ◆ Habits
- ◆ Lesions and Emergencies during Orthodontic Treatment
- ◆ Retention in Orthodontics

Edn. 1st (2013); 376 pp; HB; 978-93-81714-39-3; ₹ 2295, US \$ 59.05

### Pharmacology Simplified for Dental Students

Ravikant Iyer



#### Contents

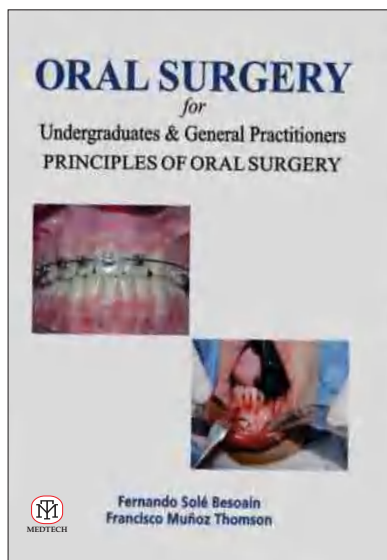
- ◆ General Pharmacology
- ◆ Pharmacology of Autonomic Nervous System
- ◆ Autacoids and NSAIDs
- ◆ Pharmacology of Cardiovascular System
- ◆ Pharmacology of Central Nervous System
- ◆ Blood Pharmacology
- ◆ Renal Pharmacology
- ◆ Endocrinal Pharmacology
- ◆ Antimicrobial Drugs
- ◆ Gastrointestinal Pharmacology
- ◆ Dental Pharmacology
- ◆ Miscellaneous Drugs

Edn. 1st (2013); 256 pp; PB; 978-93-81714-56-0; ₹ 395, US \$ 10.15



## Oral Surgery for Undergraduates and General Practitioners

Fernando Solé Besoain



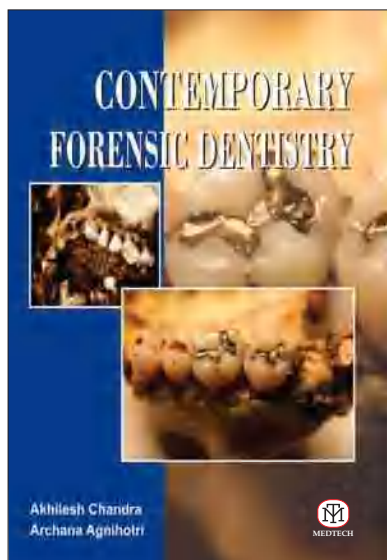
### Contents

- ◆ Preoperative Considerations
- ◆ Management and Prevention of Medical Emergencies
- ◆ Principles of Surgery
- ◆ Local Anesthetics
- ◆ Exodontia
- ◆ Oral and Maxillofacial Infections of Odontogenic Origin
- ◆ Management and Surgical Extraction of Unerupted Teeth
- ◆ Pre-Prosthetic Surgery
- ◆ Dentoalveolar Trauma
- ◆ Pediatric Oral Surgery.

Edn. 1st (2013); 468 pp; HB; 978-93-81714-14-0; ₹ 2295, US \$ 59.05

## A Contemporary Forensic Dentistry

Akhilesh Chandra



### Contents

- ◆ Forensic Dentistry: An introduction
- ◆ Spectrum of forensic dentistry
- ◆ History of forensic dentistry
- ◆ Ante-mortem record management
- ◆ Human identification techniques
- ◆ Sex determination techniques
- ◆ Age estimation techniques
- ◆ Mass disaster victim identification
- ◆ Bite marks analysis and child abuse
- ◆ Forensic radiology.

Edn. 1st (2016); 220 (Approx) pp; PB; 978-93-81714-82-9; TBA

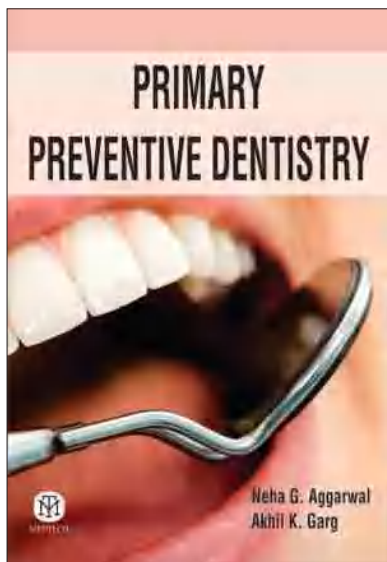


Engaging Sciences—Developing Minds!



## Primary Preventive Dentistry

Neha G. Aggarwal



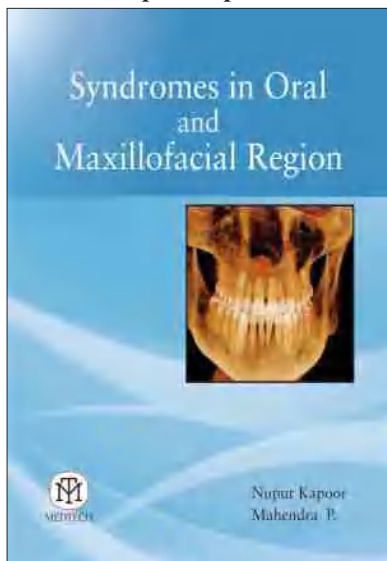
### Contents

♦ Introduction to Primary Preventive Dentistry ♦ Dental Plaque  
♦ Carious Lesions ♦ Periodontal Diseases ♦ Dental Trauma, Host  
Defense Mechanisms in the Oral Cavity ♦ Toothbrushes and  
Toothbrushing Methods, ♦ Dentifrices, Mouthrinses, and Chewing  
Gums ♦ Self-Care Measures to Supplement Toothbrushing  
♦ Community Water Fluoridation ♦ Topical Fluoride Therapy ♦ Dental  
Sealants ♦ Nutrition Diet, and Associated Oral Conditions ♦ Sugar and  
Other Sweeteners ♦ Professional Dental Hygiene Care ♦ Health  
Education and Promotion Theories ♦ Tobacco Cessation ♦ Athletic  
Mouthguards ♦ Technological Advances in Primary Dental Care  
♦ Public Health Programs ♦ Pregnancy and Infancy ♦ Pediatrics  
♦ Adult Dental Care ♦ Geriatrics ♦ Medically Compromised  
populations, ♦ Populations with Developmental Disabilities.

Edn. 1st (2016); 540 pp; PB; 978-93-84007-50-8; ₹ TBA

## Syndromes in Oral and Maxillofacial Region

Nupur Kapoor



### Contents

♦ Introduction ♦ History ♦ Classification of Syndromes ♦ Amelo-  
Onycho-Hypohidrotic Syndrome ♦ Anderson Syndrome ♦ Angelman  
Syndrome ♦ Aortic Arch Syndrome ♦ Apert's Syndrome ♦ Ascher's  
Syndrome ♦ B-K mole Syndrome ♦ Baby Bottle Syndrome  
♦ Beckwith's Hypoglycemic Syndrome ♦ Behcet's Syndrome  
♦ Bernard-Soulier Syndrome ♦ Blepharocheilodontic Syndrome  
♦ Blepharonasofacial Syndrome ♦ Bloch-Sulzberger Syndrome  
♦ Bowen Syndrome ♦ Burning Mouth Syndrome ♦ Caffey-Silverman  
Syndrome ♦ Carpenter Syndrome ♦ Cerebo-Costomandibular  
Syndrome ♦ Chèdiak-Higashi Syndrome ♦ Coffin-Lowry Syndrome  
♦ Cornelia de Lange Syndrome ♦ Costen Syndrome ♦ Cowden's  
Syndrome ♦ Cracked Tooth Syndrome ♦ CREST Syndrome ♦ Cri-du-  
Chat Syndrome ♦ Crouzon Syndrome ♦ Cushing's Syndrome  
♦ Dejerine-Roussy Syndrome ♦ Down's Syndrome ♦ Eagle's  
Syndrome ♦ Ectrodactyly-Ectodermal Dysplasia-Clefting Syndrome  
♦ Edward Syndrome.

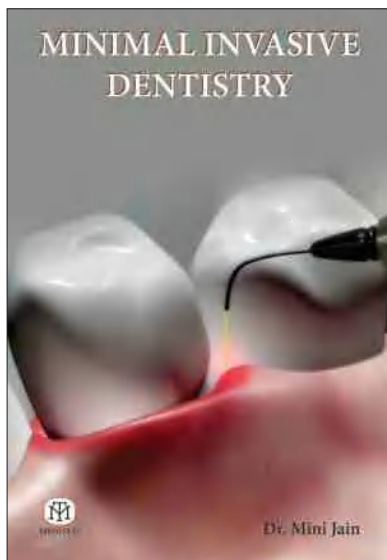
Edn. 1st (2016); 252 pp; PB; 978-93-84007-74-4; ₹ 595, US \$ 15.30



*Engaging Sciences—Developing Minds!*

## Minimal Invasive Dentistry

**Dr. Mini Jain**



### Contents

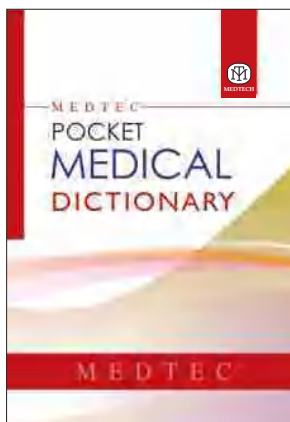
- ◆ Introduction
- ◆ History
- ◆ Insight into Literature
- ◆ Dental Caries: The Dynamics of Disease
- ◆ Need for Minimal Intervention Dentistry
- ◆ Concept of Minimal Intervention Dentistry
- ◆ Principles of Minimal Intervention Dentistry
- ◆ Diagnosis of Dental Caries
- ◆ Caries Risk Assessment
- ◆ Cavity Classification According to Minimal Intervention
- ◆ Minimal Intervention Preparation Techniques
- ◆ Biomimetic Materials
- ◆ Active Caries Control
- ◆ Remineralizing Agents in Dentistry

**Edn. 1st (2016); 224 pp; PB; 978-93-84007-76-8; ₹ 595**

## Dictionaries

### MedTech Pocket Medical Dictionary

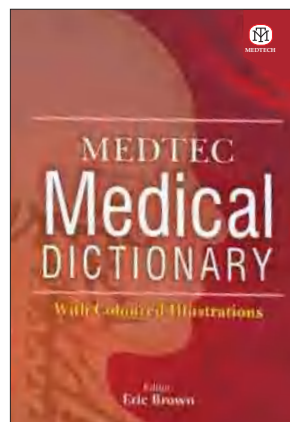
Edited by, **Eric Brown**



**Edn. 1st (2013); 760 pp;  
PB; 978-93-81714-59-1; ₹ 225, US \$ 5.80**

### MedTech Medical Dictionary

Edited by, **Eric Brown**



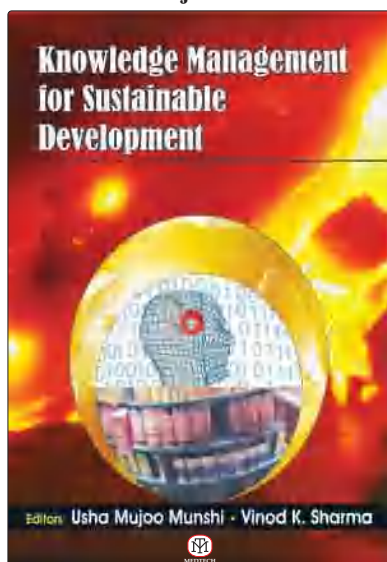
**Edn. 1st (2013); 1112 pp;  
HB; 978-93-81714-09-6; ₹ 595, US \$ 15.30**



## Education

### Knowledge Management for Sustainable Development

Usha Mujoo Munshi



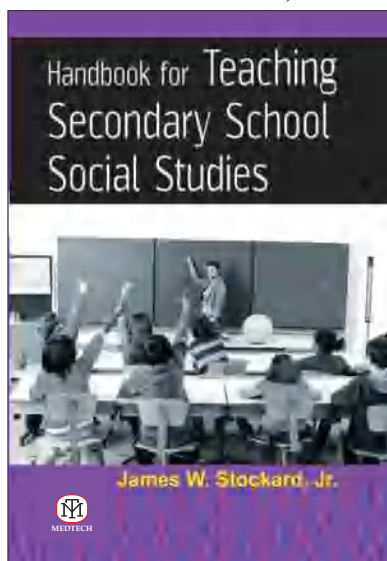
#### Contents

- ◆ Economics of Knowledge
- ◆ Knowledge Management with the MASK Method
- ◆ Knowledge Management for Successful Rollout of E-Governance Projects
- ◆ Addressing Climatic and Disaster Risks through Knowledge Systems: Quest for Responsible Governance
- ◆ Climate Compatible Development and Knowledge Network
- ◆ K-economy in SAARC Region: An Exploratory Study
- ◆ Knowledge Management through ICT for Sustainable Development: Research Needs for SAARC Countries
- ◆ Converging Indigenous Knowledge with ICT: K-framework for e-Governance Initiatives in Developing Countries
- ◆ Developmental Perspectives in Information and Knowledge Society
- ◆ Building Knowledge for Organizational Effectiveness
- ◆ Futuristic Perspectives in Indian Higher Education: Significance of Capability Approach
- ◆ Potential of Knowledge Management in Disaster Risk Reduction in India.

Edn. 1st (2014); 624 pp; HB; 978-93-81714-72-0; ₹ 1295, US \$ 33.20

### Handbook for Teaching Secondary School Social Studies

James W. Stockard, Jr.



#### Contents

- ◆ Philosophical and Historical Background
- ◆ Components of Secondary Social Studies
- ◆ Planning for Secondary
- ◆ Planning for Secondary Social Studies
- ◆ INTASC Standards: An Umbrella for Evaluation
- ◆ The Comprehensive Curriculum and Content Standards
- ◆ Basic Instructional Considerations
- ◆ Vital Topics and Critical Issues in Social Studies

Edn. 1st (2015); 200 pp; PB; 978-93-84007-19-5; ₹ 395, US \$ 10.15



## English in the Internet Era

C.P. Satheesh



### Contents

#### Module I:

- ◆ History and Development of Computers
- ◆ A Brief History of the Internet
- ◆ The English Language and the Internet

#### Module II:

- ◆ Information Communication Technology
- ◆ Key Challenges in Integrating ICTs in Education

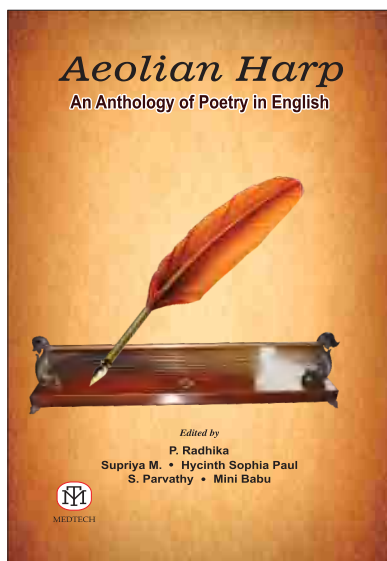
#### Module III:

- ◆ Introduction to Social Networking Site
- ◆ English Language in the Internet Era
- ◆ Internet Based Learning Resources

Edn. 1st (2015); 168 pp; PB; 978-93-84007-66-9; ₹ 125, US \$ 3.20

## Aeolian Harp-An Anthology of Poetry in English

P. Radhika



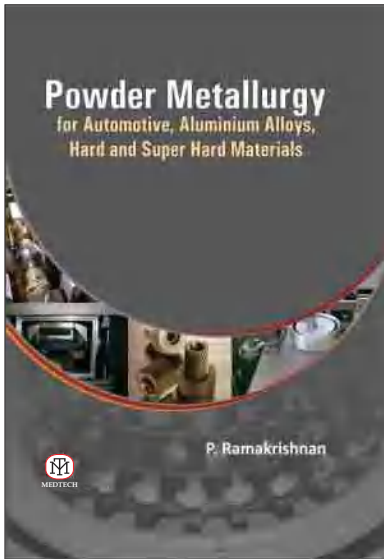
### Contents

- ◆ Shall I Compare Thee to a Summer's Day
- ◆ A Valediction Forbidding Mourning
- ◆ Elegy Written in a Country Churchyard
- ◆ Kubla Khan
- ◆ Darkness
- ◆ Porphyria's Lover
- ◆ The Circus Animals' Desertion
- ◆ The Road Not Taken
- ◆ A Subaltern
- ◆ Macavity: The Mystery Cat
- ◆ General-Your Tank
- ◆ Prayer Before Birth
- ◆ Not My Best Sid
- ◆ A Consumer's Report
- ◆ An Introduction
- ◆ Practical Criticis
- ◆ Sample Question Paper

Edn. 1st (2013); 164 pp; PB; 978-93-81714-67-6; ₹ 105, US \$ 2.70

### Powder Metallurgy

P. Ramakrishnan



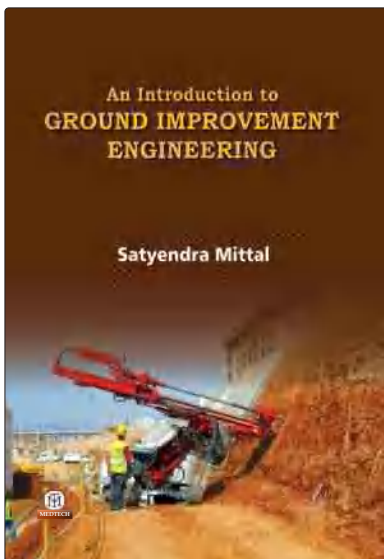
#### Contents

◆ Powder Metallurgy—Changing Trends ◆ Prealloyed Molybdenum Low Alloy Steel Powders and the Flexibility of Hybrid Alloys based on these Powders ◆ Effect of Powder Mix Formulation and Sintering Conditions on the Dimensional Stability of Sinter Hardening Powders ◆ New Press Type EP with Electrical Servo Drive System ◆ Rat-Cat in PM Parts Production ◆ Metal Injection Moulding ◆ Laser Cladding and Powders ◆ Development of Nickel based Cladding through Microwave Hybrid Heating ◆ Experimental Study of Physical Properties of MIM Product Made from Industrial Metallic Waste ◆ Investigation of Stud Weldability of Powder Metal Al Plates ◆ Sliding Wear Behaviour of Mechanically Alloyed Al-Si-SiCp Nanocomposites ◆ Synthesis of Titanium Aluminides by Mechanical Alloying and their Sintering Behaviour ◆ Structure of Nanocrystalline Cemented Carbides Sintered by the Pulse-plasma Method ◆ Brittleness of Nanocrystalline Cemented Carbides Obtained by the PPS Method.

Edn. 1st (2014); 240 pp; HB; 978-93-81714-48-5; ₹ 1395, US \$ 35.90

### An Introduction to Ground Improvement Engineering

Satyendra Mittal



#### Contents

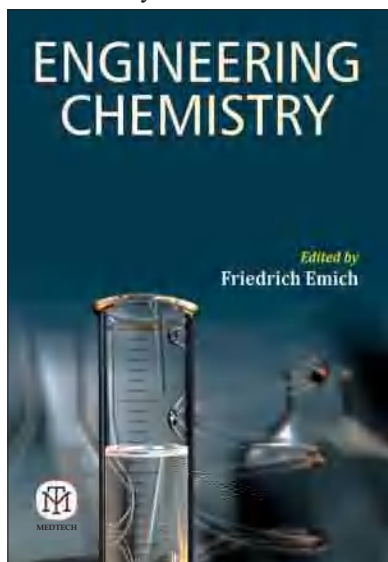
- ◆ Introduction & Earth Reinforcement
- ◆ Reinforced Earth Application in Foundations
- ◆ Reinforced Earth Wall
- ◆ Use of Geosynthetics on Roads and Pavements
- ◆ Grouting Technology
- ◆ Soil Nailing
- ◆ Wall with Reinforced Backfill
- ◆ Micropiling
- ◆ Stones Columns
- ◆ Improvement of Black Cotton Soil and Use of Admixtures
- ◆ Construction Dewatering
- ◆ Miscellaneous Methods
- ◆ Landfills
- ◆ Ground Freezing
- ◆ Strengthening of Existing Foundations
- ◆ Appendix- I: Some Applications of Ground Improvement Techniques at Various Sites.

Edn. 1st (2013); 300 pp; PB; 978-93-81714-36-2; ₹ 325, US \$ 8.35



## Engineering Chemistry

Edited by **Friedrich Emich**



### Contents

Basic Concepts of Chemistry ♦ Water and Its Treatment ♦ Fuels and Combustion ♦ Atomic Structure ♦ Chemical Bonding ♦ Gaseous and Liquid State ♦ Solid State Chemistry ♦ Liquid Crystals ♦ Solutions ♦ Surface Chemistry ♦ Electrochemistry ♦ Nuclear Chemistry ♦ Photochemistry ♦ Electromotive Force ♦ Chemical Thermodynamics ♦ The Phase Rule ♦ Chemical Equilibrium ♦ Fundamentals of Reaction Mechanism ♦ Kinetics of Chemical Reactions ♦ Mechanism of Catalysts ♦ Stereochemistry ♦ Corrosion and Its Prevention ♦ Surface Coatings ♦ Adhesives and Sealants ♦ Lubricants ♦ Inorganic Engineering Materials ♦ Mechanism of Polymerisation ♦ Explosives and Propellants ♦ Composite and Advance Materials ♦ Metals and Alloys ♦ Transition Metals ♦ Thermal Analysis Techniques ♦ Chromatography ♦ Spectroscopy ♦ Chemical Aspects of Biotechnology ♦ Oils, Soap and Detergents ♦ Pollution and Its Control ♦ Analytical Chemistry.

Edn. 1st (2014); 1024 pp; PB; 978-93-81714-52-2; ₹ 795, US \$ 20.45

## Textbook of Digital Electronics

Shriram K. Vasudevan



### Contents

- ♦ Boolean Algebra
- ♦ Switches: An In-depth Analysis
- ♦ Electromechanical Relays
- ♦ An Introduction to the Ladder Logic
- ♦ A Complete Analysis of Binary Arithmetic
- ♦ Code Conversions—A Deeper Analysis
- ♦ Logic Gates
- ♦ Karnaugh Maps
- ♦ Combinational Logic Functions
- ♦ Flip-flops—A Detailed Discussion
- ♦ Counters—An In-depth Analysis
- ♦ Shift Registers and Related Investigations
- ♦ Digital to Analog Conversion—A Detailed Gaze
- ♦ Digital Communication
- ♦ Digital Storage—An Analysis
- ♦ Principles of Digital Computing and Introduction to Microprocessors and Controllers.

Edn. 1st ( 2014); 304 pp; PB; 978-93-81714-53-9; ₹ 350, US \$ 9.00

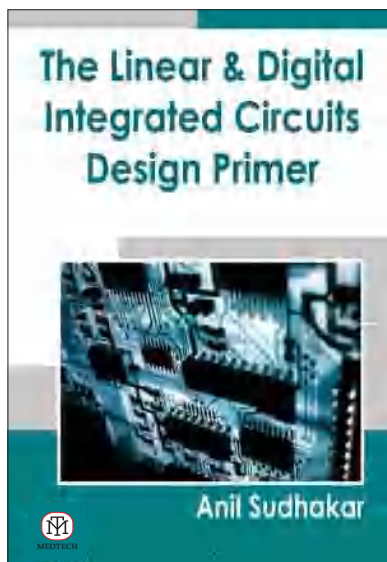




*Engaging Sciences—Developing Minds!*

## The Linear & Digital Integrated Circuits Design Primer

Anil Sudhakar



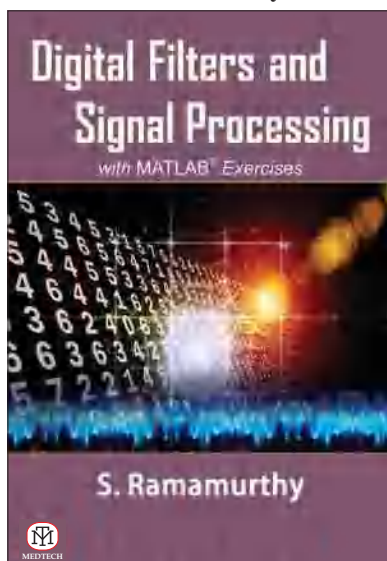
### Contents

- ◆ Introduction to Integrated Circuits
- ◆ IC Fabrication
- ◆ Operational Amplifiers
- ◆ Operational Amplifier Applications
- ◆ Phase Locked Loops
- ◆ 555 Timer IC
- ◆ DACs and ADCs
- ◆ Fundamentals of Digital Systems
- ◆ Digital Circuits-I
- ◆ Digital Circuits-II
- ◆ Logic Families
- ◆ References

Edn. 1st (2014); 168 pp; PB; 978-93-81714-85-0; ₹ 225, US \$ 5.80

## Digital Filters and Signal Processing-with MATLAB Exercises

S. Ramamurthy



### Contents

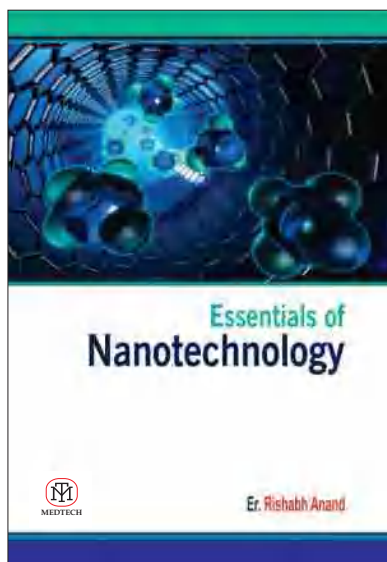
- ◆ Introduction: Terminology and Motivation
- ◆ Discrete-Time Signals and Systems
- ◆ The z-Transform
- ◆ Input/Output Relationships
- ◆ Discrete-Time Networks
- ◆ Sampling and Fourier Analysis
- ◆ Discrete Fourier Transform
- ◆ IIR Filter Design by Transformation
- ◆ FIR Filter Design Techniques
- ◆ Filter Design by Modeling
- ◆ Quantisation Effects
- ◆ Digital Filter Implementation
- ◆ Filter and Systems Examples

Edn. 1st (2014); 512 pp; PB; 978-93-84007-04-1; ₹ 350, US \$ 9.00



## Essentials of Nanotechnology

Rishabh Anand



### Contents

- ◆ Basic Concept of Nanotechnology
- ◆ Materials and Manufacture of Nanotechnology
- ◆ Renewable Energy of Nanotechnology
- ◆ Drug Delivery by Nanotechnology
- ◆ Nanotechnology and Cosmetics
- ◆ Applications of Bionanotechnology
- ◆ Nanotechnology in Tissue Engineering
- ◆ Nanotechnology in Bioinformatics
- ◆ Applications of Nanotechnology in Information Technology
- ◆ Nanotechnology in Agriculture and Food Industry
- ◆ Environmental Nanotechnology
- ◆ Nanotechnology—A Risk for Health and Environment
- ◆ Ethics of Nanoscience and Nanotechnology
- ◆ Regulation on Nanotechnology
- ◆ Future Prospects for Nanotechnology
- ◆ Glossary of Technical Terms

Edn. 1st (2014); 252 pp; PB; 978-93-81714-50-8; ₹ 395, US \$ 10.15

## Analysis of Microcontrollers

D.P. Kothari



### Contents

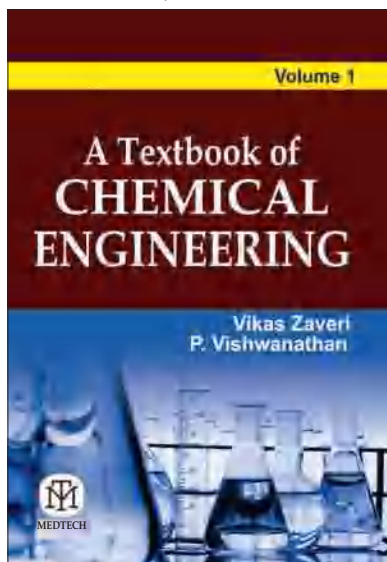
- ◆ Introduction to Microprocessors and Microcontrollers
- ◆ Architecture of 8051
- ◆ 8051 Instruction Set
- ◆ 8051 Interfacing with Peripherals
- ◆ Sample Project with 8051 and Introduction to PIC Microcontrollers
- ◆ Introduction to ARM Architecture
- ◆ ARM and THUMB Instruction sets

Edn. 1st (2013); 212 pp; PB; 978-93-81714-29-4; ₹ 275, US \$ 7.10



## A Textbook of Chemical Engineering (Vol. 1)

Vikas Zaveri, P. Vishwanathan



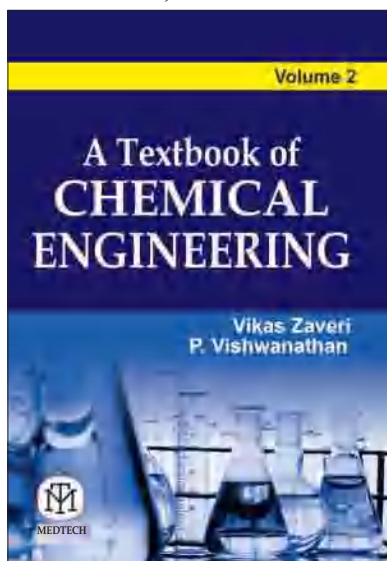
### Contents

- ◆ Dimensions and Units
- ◆ Fluids in Motion
- ◆ Newtonian and Non-Newtonian Fluids in Pipes and Open Channels
- ◆ Flow of Compressible Fluids
- ◆ Flow of Multiphase Mixtures
- ◆ Flow and Pressure Measurement
- ◆ Mixing of Liquids and Particles
- ◆ Pumping of Fluids and Gases
- ◆ Fundamentals of Heat Transfer
- ◆ Shell and Tube Heat Exchangers
- ◆ Thermal Insulation
- ◆ Fundamentals of Mass Transfer
- ◆ Boundary Layer
- ◆ Simultaneous Momentum, Heat and Mass Transfer
- ◆ Humidification Operations

Edn. 1st (2014); 548 pp; PB; 978-93-84007-07-2; ₹ 595, US \$ 15.30

## A Textbook of Chemical Engineering (Vol. 2)

Vikas Zaveri, P. Vishwanathan



### Contents

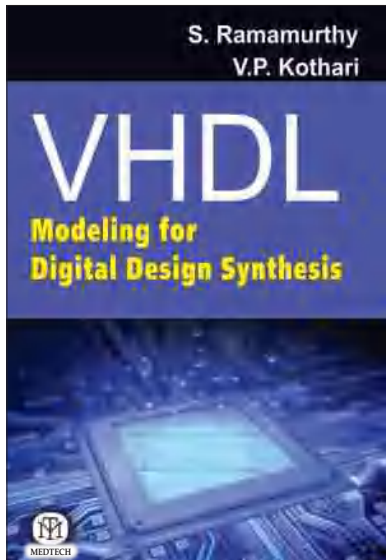
- ◆ Handling and Mixing of Particulate Solids
- ◆ Particle Size Reduction and Enlargements
- ◆ Motion of Particles in a Fluid
- ◆ Flow of Fluids through Granular Beds and Packed Columns
- ◆ Sedimentation, Flocculation and Coagulation
- ◆ Fluidisation
- ◆ Filtration
- ◆ Membrane Separation
- ◆ Centrifugal Separations
- ◆ Leaching
- ◆ Distillation
- ◆ Gas Absorption
- ◆ Liquid-liquid Extraction
- ◆ Evaporation and Evaporators
- ◆ Crystallisation and Crystallisers
- ◆ Drying Adsorption ◆ Ion Exchange
- ◆ Chromatography ◆ Product Design and Process Intensification

Edn. 1st (2014); 672 pp; PB; 978-93-84007-08-9; ₹ 695, US \$ 17.90



## VHDL—Modeling for Digital Design Synthesis

S. Ramamurthy



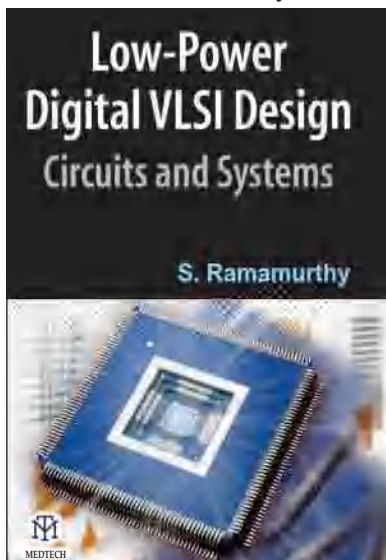
### Contents

- ◆ Introduction
- ◆ Basic Structures in VHDL
- ◆ Types, Operators and Expressions
- ◆ Sequential Statements
- ◆ Concurrent Statements
- ◆ Subprograms and Packages
- ◆ Modeling at the Structural Level
- ◆ Modeling at the RT Level
- ◆ Modeling at the FSMD Level
- ◆ Modeling at the Algorithmic Level
- ◆ Memories
- ◆ VHDL Synthesis
- ◆ Writing Efficient VHDL Descriptions
- ◆ Practicing Designs

Edn. 1st (2014); 376 pp; PB; 978-93-84007-00-3; ₹ 395, US \$ 10.15

## Low-Power Digital VLSI Design—Circuits and Systems

S. Ramamurthy



### Contents

- ◆ Low-Power VLSI Design: An Overview
- ◆ Low-Voltage Process Technology
- ◆ Low-Voltage Device Modeling
- ◆ Low-Voltage Low-Power VLSI CMOS Circuit Design
- ◆ Low-Voltage VLSI BICMOS Circuit Design
- ◆ Low-Power CMOS Random Access Memory Circuits
- ◆ VLSI CMOS Subsystem Design
- ◆ Low-Power VLSI Design Methodology.

Edn. 1st (2014); 544 pp; PB; 978-93-84007-03-4; ₹ 395, US \$ 10.15

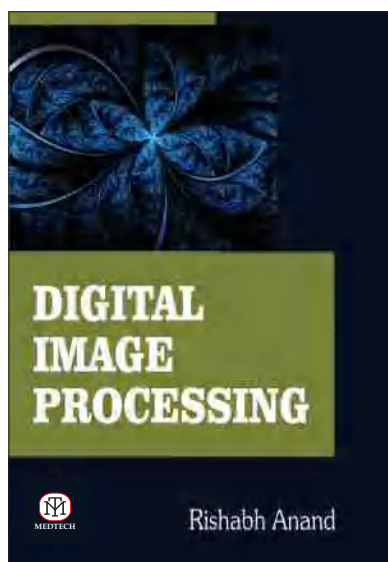




Engaging Sciences—Developing Minds!

## Digital Image Processing

Rishabh Anand



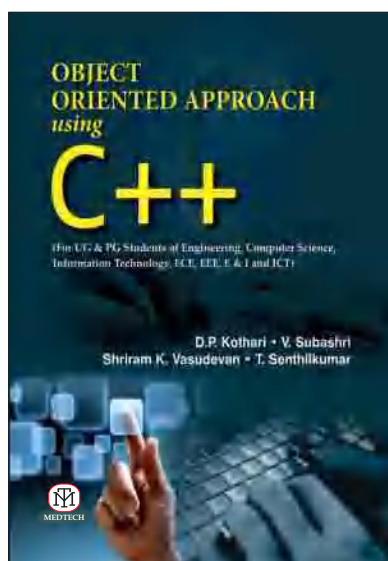
### Contents

- ◆ Introduction to Image Processing
- ◆ Digital Image System
- ◆ Digital Image Processing Operations
- ◆ Digital Image Transforms
- ◆ Image Enhancement and Restoration
- ◆ Image Compression
- ◆ Image Segmentation
- ◆ Colour Image Processing
- ◆ Image Morphology
- ◆ Image Features Representation and Description
- ◆ Object Recognition
- ◆ Related Topics
- ◆ Appendices
- ◆ Fourteen Experiments.

Edn. 1st (2015); 620 pp; PB; 978-93-84007-38-6; ₹ 595, US \$ 15.30

## Object Oriented Approach using C++

D.P. Kothari



### Contents

- ◆ Introduction to C++
- ◆ C++ —A detailed Study
- ◆ Objects—A Closer Look
- ◆ Operator Overloading
- ◆ Inheritance—An Analysis
- ◆ Templates
- ◆ Exception Handling
- ◆ Virtual Functions
- ◆ File Handling in C++
- ◆ Few Advanced Concepts in C++
- ◆ C++ Programming in Unix/Linux.

Edn. 1st (2013); 212 pp; PB; 978-93-81714-46-1; ₹ 275, US \$ 7.10



## Design of Steel Structures

Shanti Kumar



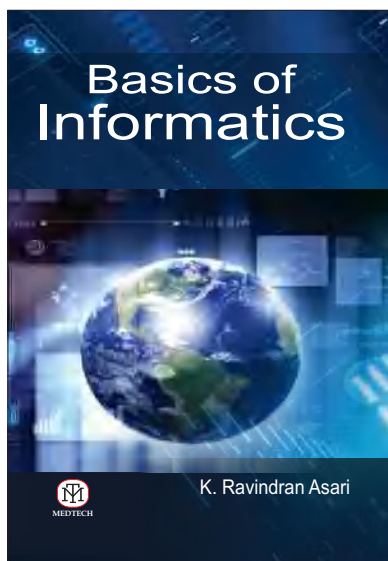
### Contents

- ◆ Preface Introduction
- ◆ Tension Members
- ◆ Compression Members Designs of Bending Members
- ◆ Torsion and Bending
- ◆ Design of Bracings for Wind and Earthquake Forces
- ◆ Connections
- ◆ Anchor Bolts and Baseplates
- ◆ Built-Up Beams: Plat Girders
- ◆ Composite construction
- ◆ Plastic Analysis and Design of Structures
- ◆ Influence of Axial Forces on Plastic Moment
- ◆ Rigid Connections
- ◆ Multistory Buildings: Plastic Design.

Edn. 1st (2016); 408 pp; PB; 978-93-84007-18-8; ₹ 295, US \$ 7.60

## Basics of Informatics

K. Ravindran Asari



### Contents

#### Module 1

- ◆ Informatics: An introduction, History and Development of computers
- ◆ Types of computers ◆ Personal Computers (PC) ◆ Workstations
- ◆ Laptops ◆ Palmtops ◆ Mobile devices ◆ Notebooks
- ◆ Mainframe computers ◆ Super computers ◆ IT and the Internet
- ◆ Cyber ethics and cyber crimes like hacking and morphing.

#### Module 2

- ◆ Basic Hardware and Software. Monitor ◆ CRT and LCD
- ◆ CPU ◆ Mouse ◆ Keyboard ◆ Ports ◆ USB ◆ Input/output devices
- ◆ Printers ◆ Scanners ◆ Pendrives ◆ Modems ◆ Microphones
- ◆ Speakers ◆ Bluetooth devices.

#### Module 3

- ◆ Operating Systems: Microsoft Word ◆ Excel ◆ PowerPoint ◆ Linux
- ◆ Computer virus ◆ Antivirus tools ◆ File formats ◆ jpg ◆ jpeg
- ◆ mp3 ◆ zip ◆ RAR.

#### Module 4

- ◆ Net working and Internet ◆ What is networking? ◆ LAN ◆ WAN
- ◆ Search engines ◆ Social Networking ◆ Appendix ◆ References

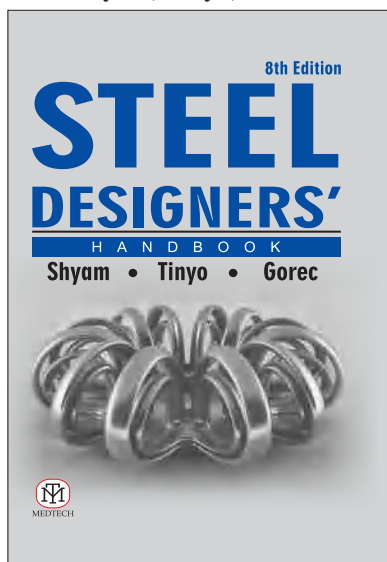
Edn. 1st (2015); 176 pp; PB; 978-93-84007-34-8; ₹ 115, US \$ 2.98



Engaging Sciences–Developing Minds!

## Steel Designers' Handbook

Shyam, Tinyo, Gorec



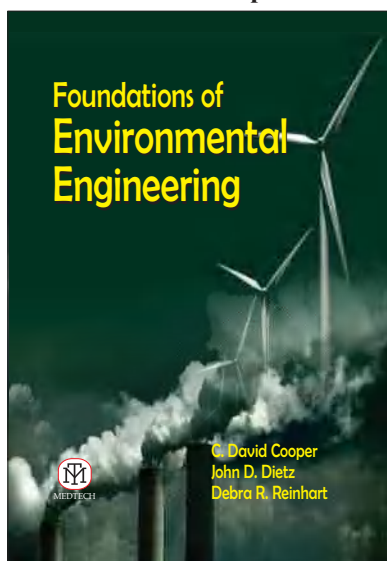
### Contents

- ◆ Introduction
- ◆ Material & Design Requirements
- ◆ Design Actions
- ◆ Structural Analysis Beams & Girders
- ◆ Compression & Beam-Column Members
- ◆ Tension Members
- ◆ Connections
- ◆ Plastic Design
- ◆ Structural Framing
- ◆ Appendix
- ◆ Index

Edn. 8th (2016); 476 pp; HB; 978-93-84007-70-6; ₹ 995, US \$ 25.60  
PB; 978-93-84007-71-3; ₹ 695, US \$ 17.87

## Foundations of Environmental Engineering

C. David Cooper



### Contents

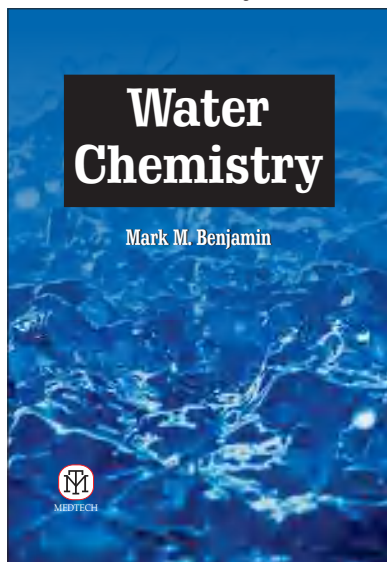
- ◆ Historical, Social, and Political Foundations
- ◆ Chemical Foundations
- ◆ Mathematical and Physical Foundations
- ◆ Biological Foundations
- ◆ Air Resources
- ◆ Water Resources
- ◆ Management of Land-Disposed Waste
- ◆ Case Studies

Edn. 1st (2015); 384 pp; HB; 978-93-84007-63-8; ₹ 995, US \$ 25.60



## Water Chemistry

Mark M. Benjamin



### Contents

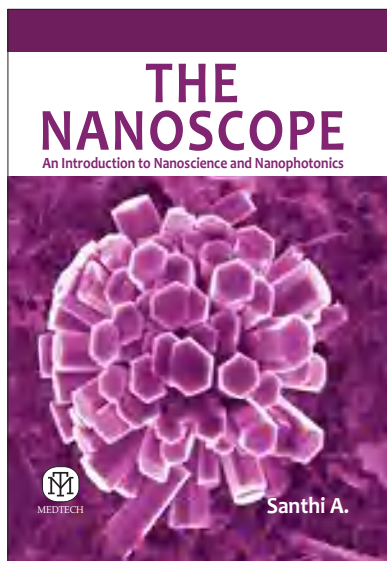
- ◆ Concepts in Aquatic Chemistry
- ◆ Potentials, Energy, and Forces: Ways to Interpret Changes in Physical/Chemical Systems
- ◆ Acids and Bases, Part 1
- ◆ Acids and Bases, Part 2
- ◆ Titrations and Buffers
- ◆ Software for Solving Chemical Equilibrium Problems
- ◆ Gas/Liquid Equilibrium
- ◆ Chemistry of Metals in Aqueous Systems
- ◆ Redox Chemistry
- ◆ Adsorption Reactions

Edn. 1st (2015); 688 pp; HB; 978-93-84007-56-0; ₹ 3995, US \$ 102.75

PB; ₹ 1095.00

## The Nanoscope

Santhi A.



### Contents

- ◆ Introduction to Nanoscience
- ◆ Elementary Solid State Physics
- ◆ Synthesis Techniques for Nanoparticles
- ◆ Methods of Characterization
- ◆ Photonic Nanomaterials
- ◆ Bulk Nanostructured Materials
- ◆ Nanostructured Ferromagnetism
- ◆ Quantum Wells, Wires, and Dots
- ◆ Nanomachines and Nanodevices
- ◆ Photonic Crystals
- ◆ Applications of Nanomaterials
- ◆ References
- ◆ Index.

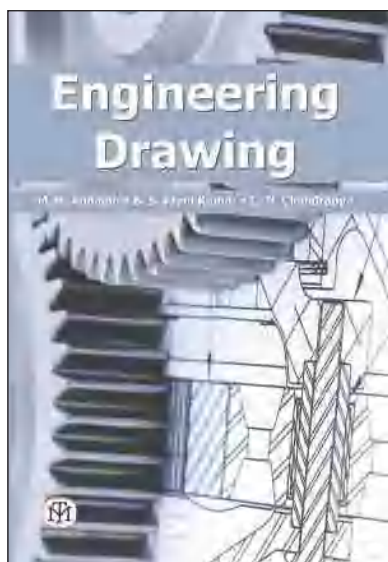
Edn. 1st (2015); 400 pp; PB; 978-93-84007-65-2; ₹ 595, US \$ 15.30



*Engaging Sciences—Developing Minds!*

## Engineering Drawing

**M.H. Annaiah**



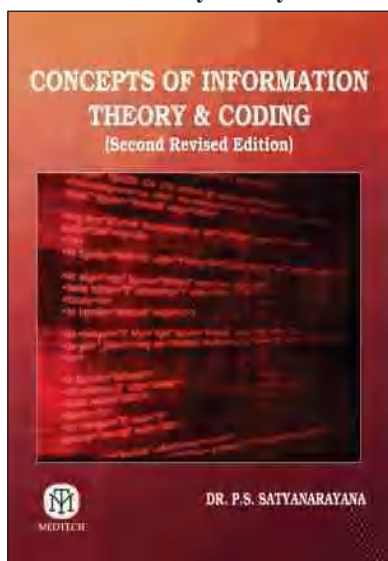
### Contents

- ◆ Drawing
- ◆ Instruments and their Uses
- ◆ Line types, Dimensions and Lettering
- ◆ Use of Instruments
- ◆ Orthographic Projections
- ◆ Projection of Points
- ◆ Projection of Lines
- ◆ Projection of Plane Surfaces
- ◆ Projection of Solids
- ◆ Sections of Solids
- ◆ Development of Surfaces
- ◆ Isometric Projections

Edn. 1st (2016); 452 pp; PB; 978-93-84007-77-5; ₹ 395, US \$ 10.15

## Concepts of Information Theory & Coding

**Dr. P.S. Satyanarayana**



### Contents

- ◆ Concepts of Probability & Random
- ◆ Variable Theory
- ◆ Concepts of Information Discrete Sources – Entropy
- ◆ Two Dimensional Schemes Discrete Channels
- ◆ Continuous Channels
- ◆ Information Theory and Source Encoding
- ◆ Concepts of Error Control Coding Block Codes
- ◆ Cyclic Codes
- ◆ Convolutional
- ◆ Codes
- ◆ Coding for Burst Error Correction
- ◆ References
- ◆ Index

Edn. 2nd (2016); 364 pp; PB; 978-93-84007-98-0; ₹ 395, US \$ 10.15





## Environmental Sciences

### Disaster Management

Vinod K. Sharma



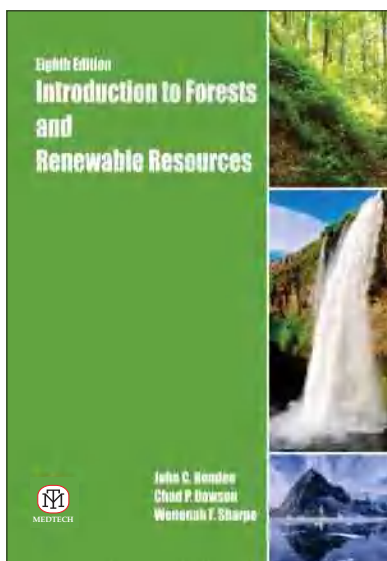
#### Contents

♦ Environment and Development: Examples from Himalaya and Eastern and Western Ghats ♦ Natural Disaster Management in National Development –An Indian Perspective ♦ Flood Management in India ♦ Disaster Management in India: A Community Practice ♦ Action Plan for Earthquake Disaster Mitigation ♦ Basic Principles and Elements of Disaster Mitigation ♦ Functioning of Disaster Management organisation and Methodology to Cope with Disasters in India ♦ Climate change and Natural Disasters ♦ Section 2: Case Studies- Drought Management Though Anticipatory Multidimensional Approaches–A Case Study ♦ Drought in Rajasthan and Gujarat (1999–2000 and 2000–01) ♦ National Disaster Rehabilitation Housing and Structural Mitigation and Case Study for Earthquake Affect Areas ♦ Case Study in India: Diagnosis, Repair and Strengthening of Damaged Buildings ♦ Gujarat Earthquake –Emerging Issues and Lessons for Future ♦ Cyclone Disaster Management in Coastal District of Andhra Pradesh ♦ Managing Natural Disasters –The Lessons from Orissa Super Cyclone

Edn. 2nd (2013); 386 pp; HB; 978-93-81714-31-7; ₹ 1395, US \$ 35.90

### Introduction to Forests and Renewable Resources

John C. Hendee



#### Contents

♦ Forests: Historical Uses and Future Values ♦ Forest and Renewable Resource Policy: Historical Development and Current Applications ♦ Distribution of North American Forests ♦ Forest Ecology ♦ Silviculture and Forest Ecosystem Management ♦ Insects and Mammals ♦ Disease and the Elements ♦ Fire Management ♦ Wildlife Conservation and Management ♦ Watersheds and Streams ♦ Conservation and Management of Rangeland Resources ♦ Outdoor Recreation and Wilderness Management ♦ Harvesting Trees ♦ Forest Products ♦ Economics in Forest and Renewable Resource Management ♦ Measuring and Analyzing Forests and Renewable Resources ♦ Forest and Renewable Resource Management by the Federal Government ♦ Forest Management by the States ♦ Forest Management on Private Lands ♦ Urban and Community Forests.

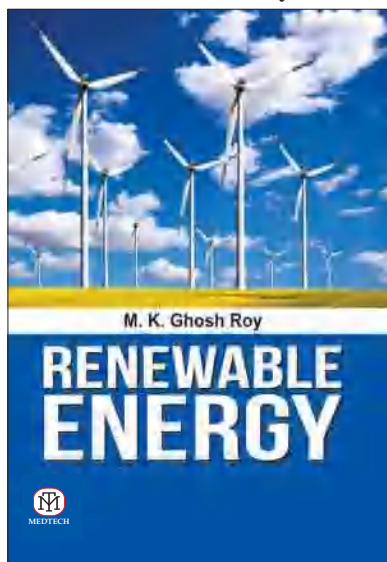
Edn. 8th (2015); 200 pp; PB; 978-93-84007-27-0; TBA



Engaging Sciences—Developing Minds!

## Renewable Energy

M. K. Ghosh Roy



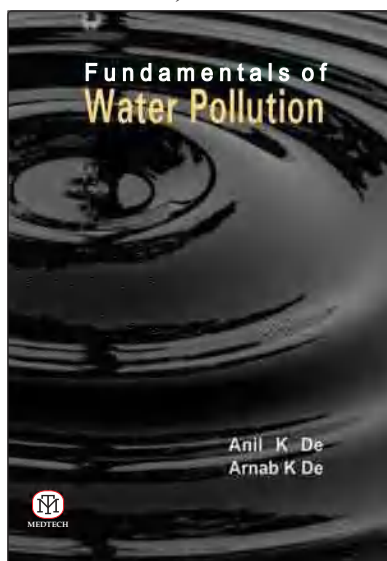
### Contents

♦ Science and Technology of Solar Thermal Power ♦ Science and Technology of Photovoltaic (PV) Power ♦ Solar Energy to Global Overview ♦ Survey of Solar Power in USA, Spain, Germany and China ♦ Solar Power in India Today ♦ Jawaharlal Nehru National Solar Mission National R & D Programme in Solar Energy ♦ Major Solar Companies of India ♦ History of Wind Power Through the Ages ♦ Global Overview of Wind Power ♦ Technology of Wind Energy and Associated Turbo-power Systems ♦ Indian Wind Power Development ♦ World Wind Power Development (USA, China, European Union, Canada, Australia and South Africa) ♦ Growth of Plant Biomass, Biomass Structure and Forestry ♦ An Overview of Bioenergy Fuels ♦ Biogas—Producer Gas and Anaerobic Gas ♦ Bioethanol: Biochemical Processes ♦ Biodiesel: Transesterification of Vegetable Oils ♦ Development of Bioenergy in India ♦ World Bioenergy Scenario (Brazil, China and USA) ♦ Hydrogen Energy and Fuel Cell Technology ♦ Ocean Thermal Energy Conversion (OTEC) ♦ Ocean Wave Energy and Tidal Energy.

Edn. 1st (2015); 348 pp; PB; 978-93-84007-15-7; ₹ 495, US \$ 12.75

## Fundamentals of Water Pollution

Anil K De, Arnab K De



### Contents

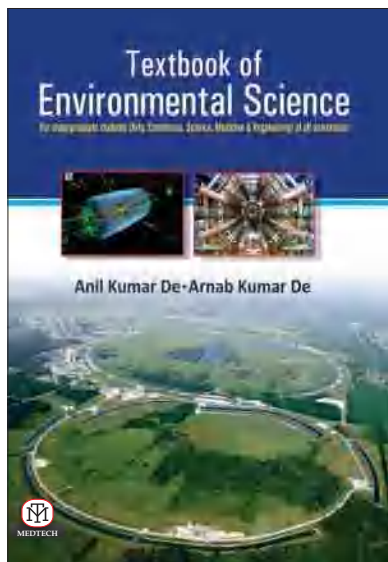
- ♦ Water Pollution and Its Importance
- ♦ Water Pollution
- ♦ Chemical Toxicology of Water Pollutants
- ♦ Chemical Speciation of Water Pollutants
- ♦ Water Quality Parameters and Standards
- ♦ The Characteristics of Industrial Waste Effluents
- ♦ Sampling of Water and Waste Water for Analysis
- ♦ Methodology of Water and Waste Water Analysis
- ♦ Principles of Analytical, Instrumental Methods used in Water Analysis
- ♦ Wastewater Treatment

Edn. 1st (2016); 300 (Approx) pp; PB; 978-93-85998-12-6; TBA



## Textbook of Environmental Science

Anil K. De & Arnab K. De



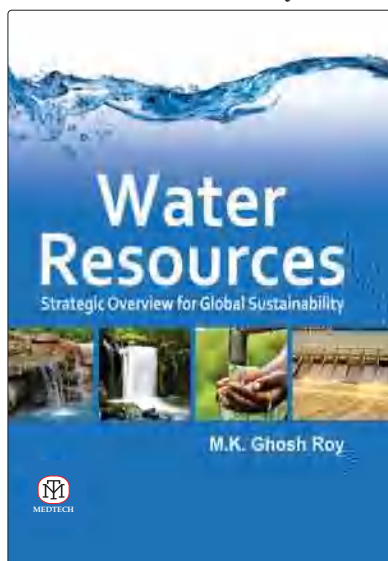
### Contents

- ♦ Introduction to Environmental Science
- ♦ Nature and Natural Processes
- ♦ Ecosystems
- ♦ Environmental Pollution and Degradation
- ♦ Population and Natural Resources
- ♦ Environment Management and Conservation

Edn. 1st (2014); 168 pp; PB; 978-93-81714-54-6; ₹ 225, US \$ 5.00

## Water Resources—Strategic Overview for Global Sustainability

M.K. Ghosh Roy



### Contents

- ♦ Historical Perspectives on Water Usage and Development
- ♦ Overview on Global Supply and Demand of Water
- ♦ Strategic Studies For Future Availability of Water—Applications of warm & Virtual Water
- ♦ Challenges of Indian Water Resources
- ♦ Water and Agriculture—Strategic Review
- ♦ Climate Change and Water Availability
- ♦ Some International Water Conflicts
- ♦ Wetland—Issues of Eco-Sustainability
- ♦ Groundwater Hydrology
- ♦ Some Important Rivers in the World
- ♦ Quality of Water
- ♦ Freshwater Treatment and Processes
- ♦ Wastewater Treatment and Processes

Edn. 1st (2015); 336 pp; PB; 978-93-84007-33-1; ₹ 495, US \$ 12.75



Engaging Sciences—Developing Minds!

## Air Pollution Control

C. David Cooper, F. C. Alley



### Contents

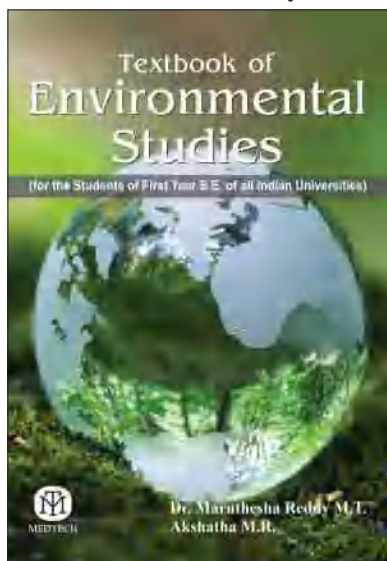
◆ An Overview ◆ What is Process Design ◆ Particulate Matter  
◆ Cyclones ◆ Electrostatic Precipitators ◆ Fabric Filters ◆ Particulate Scrubbers ◆ Auxiliary Equipment: Hoods, Ducts, Fans, and Coolers  
◆ A Particulate Control Problem ◆ Properties of Gases and Vapors  
◆ VOC Incinerators ◆ Gas Adsorption ◆ Gas Absorption ◆ Biological Control of VOCs and Odors ◆ Control of Sulfur Oxide ◆ Control of Nitrogen Oxides ◆ A Vapor Control Problem ◆ Mobile Sources: An Overview ◆ Air Pollution and Meteorology ◆ Atmospheric Dispersion Modeling ◆ Indoor Air Quality and Control ◆ Control of Carbon Dioxide.

Edn. 4th (2015); 856 pp; HB; 978-93-84007-52-2; ₹ 4495, US \$ 128.47

PB; ₹ 995.00

## Textbook of Environmental Studies

Dr. Maruthesha Reddy M.T.



### Contents

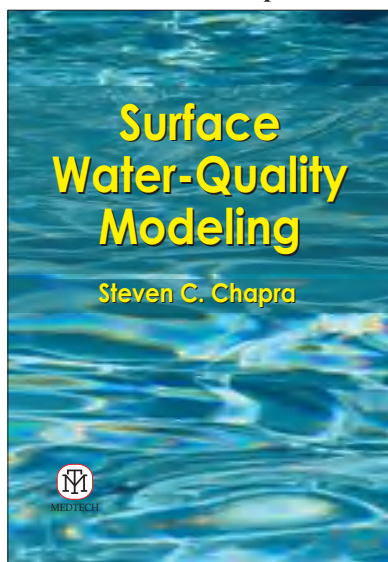
◆ Environment and Ecosystem  
◆ Impact of Human Activities on Environment  
◆ Natural Resources  
◆ Energy Resources  
◆ Environmental Pollution  
◆ Global Environmental Issues  
◆ Global Environmental Issues  
◆ Waste Management  
◆ GIS and Remote Sensing  
◆ Environmental Legislation and Education  
◆ Advanced Chapter—Indian Geology  
◆ Maps Concerning to Environment  
◆ Model Question Paper  
◆ Question Paper

Edn. 1st (2016); 160 pp; PB; 978-93-84007-80-5; ₹ 295, US \$ 7.60



## Surface Water-Quality Modeling

Steven C. Chapra



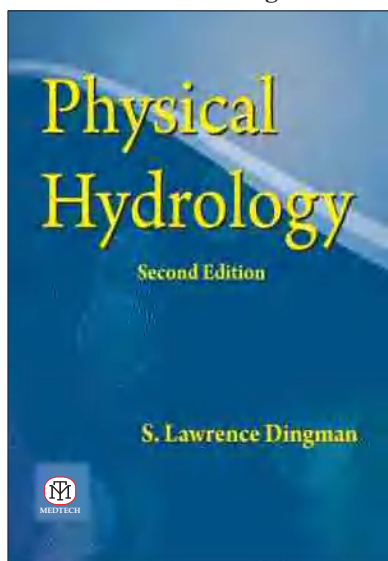
### Contents

◆ Introduction ◆ Reaction Kinetics ◆ Mass Balance, Steady-State Solution, and Response Time ◆ Particular Solutions ◆ Feedforward Systems of Reactors ◆ Feedback Systems of Reactors ◆ Computer Methods: Well-Mixed Reactors Diffusion ◆ Distributed Systems (Steady-State) ◆ Distributed Systems (Time-Variable) ◆ Control-Volume Approach: Steady-State Solutions ◆ Simple Time-Variable Solutions ◆ Advanced Time-Variable Solutions ◆ Rivers and Streams ◆ Estuaries ◆ Lakes and Impoundments ◆ Sediments ◆ The “Modeling” Environment ◆ BOD and Oxygen Saturation ◆ Gas Transfer and Oxygen Reaeration ◆ Streeter-Phelps: Point Sources ◆ Streeter-Phelps: Distributed Sources ◆ Nitrogen ◆ Photosynthesis/Respiration ◆ Sediment Oxygen Demand ◆ Computer Methods ◆ Pathogens ◆ The Eutrophication Problem and Nutrients ◆ Phosphorus Loading Concept ◆ Heat Budgets ◆ Thermal Stratification ◆ Microbe/Substrate Modeling ◆ Plant Growth and Nonpredatory Losses ◆ Predator-Prey and Nutrient/Food-Chain Interactions ◆ Nutrient/Food-Chain Modeling ◆ Eutrophication in Flowing Waters ◆ Equilibrium Chemistry ◆ Coupling Equilibrium Chemistry and Mass Balance.

Edn. 1st (2015); 864 pp; PB; 978-93-84007-51-5; ₹ 995, US \$ 25.60

## Physical Hydrology

S. Lawrence Dingman



### Contents

◆ Introduction to Hydrologic Science  
◆ Basic Hydrologic Concepts  
◆ Climate, the Hydrologic Cycle, Soils, and Vegetation: A Global Overview  
◆ Precipitation  
◆ Snow and Snowmelt  
◆ Water in Soils: Infiltration and Redistribution  
◆ Evapotranspiration  
◆ Ground Water in the Hydrologic Cycle  
◆ Stream Response to Water-Input Events  
◆ Hydrology and Water-Resource Management

Edn. 1st (2015); 656 pp; HB; 978-93-84007-61-4; ₹ 3995, US \$ 102.75

PB; ₹ 1195.00



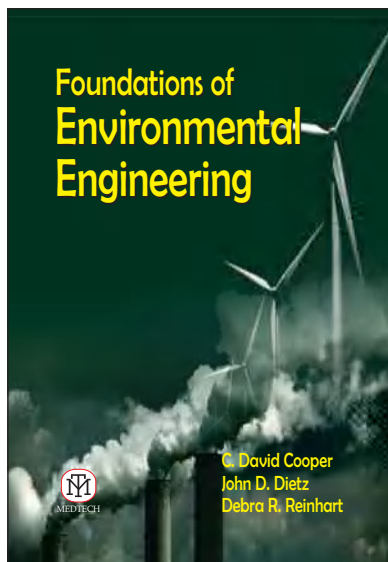


*Engaging Sciences—Developing Minds!*



## Foundations of Environmental Engineering

C. David Cooper



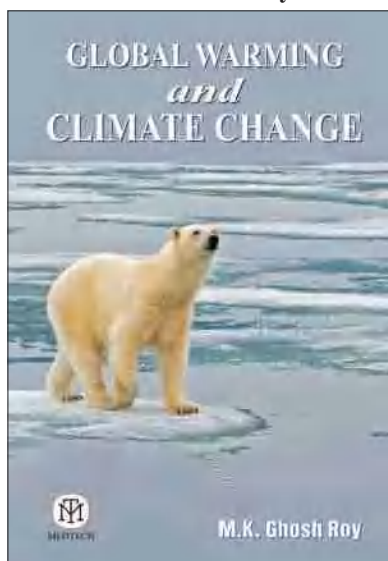
### Contents

- ◆ Historical, Social and Political Foundations
- ◆ Chemical Foundations
- ◆ Mathematical and Physical Foundations
- ◆ Biological Foundations
- ◆ Air Resources
- ◆ Water Resources
- ◆ Management of Land-Disposed Waste " Case Studies

Edn. 1st (2015); 384 pp; HB; 978-93-84007-63-8; ₹ 995, US \$ 25.60

## Global Warming and Climate Change

M. K. Ghosh Roy



### Contents

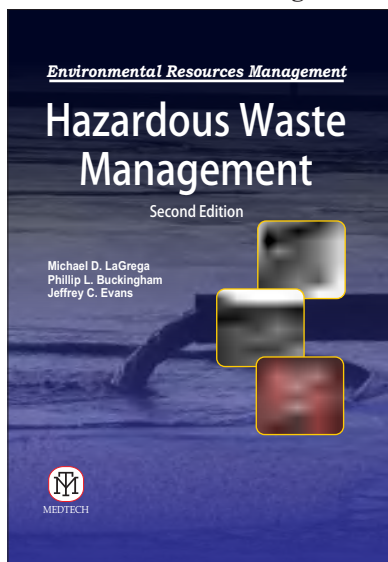
- ◆ Weather, Climate and Climate Change—An Introduction
- ◆ Elements of Global Climate: Dynamic Interactions—Atmosphere, Ocean and Land Environments
- ◆ Solar Radiation and Energy Balance
- ◆ Inter-year Climate Change: El Nino and Other Ocean-air Interaction
- ◆ Physical Laws and General Circulation Modelling
- ◆ Palaeoclimatology
- ◆ Anthropogenic Character of Global Warming
- ◆ Intergovernmental Panel on Climate Change (IPCC)
- ◆ Unfccc 1992 & International Conference On Climate Change
- ◆ Major Un Climate Change Conferences Till Date
- ◆ Element of Economics of Climate Change Carbon Trading
- ◆ Climate Technologies—Some Applications For Directly Controlling Global Warming
- ◆ Urban Climate Change
- ◆ Climate Change and Human Migration

Edn. 1st (2016); 284 pp; PB; 978-93-84007-73-7; ₹ 395 US \$ 10.15



## Hazardous Waste Management

Michael D. LaGrega



### Contents

#### Part I: Fundamentals

- ◆ Hazardous Waste
- ◆ The Legal Framework
- ◆ Process Fundamentals
- ◆ Fate and Transport of Contaminants ◆ Toxicology

#### Part II: Current Management Practices

- ◆ Environmental Audits
- ◆ Pollution Prevention ◆ Facility Development and Operations

#### Part III: Treatment and Disposal Methods

- ◆ Physicochemical Processes ◆ Biological Methods
- ◆ Stabilization and Solidification ◆ Thermal Methods ◆ Land Disposal

#### Part IV: Site Remediation

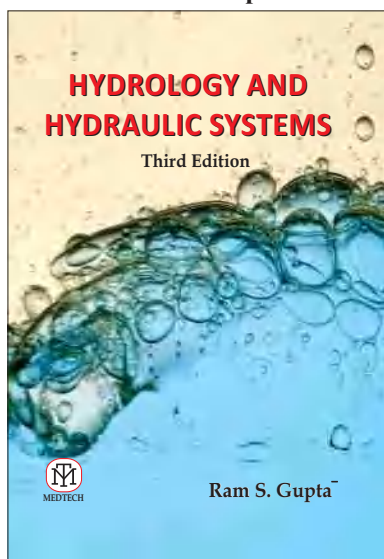
- ◆ Quantitative Risk Assessment ◆ Site and Subsurface Characterization
- ◆ Remedial Technologies
- ◆ Evaluation and Selection of Remedial Actions and Corrective Measures

Edn. 2nd (2015); 1228 pp; HB; 978-93-84007-60-7; ₹ 3995, US \$ 102.75

PB; ₹ 1295.00

## Hydrology and Hydraulic Systems

Ram S. Gupta



### Contents

- ◆ Demand for War
- ◆ Availability of Water
- ◆ Theory of Groundwater Flow
- ◆ Applications and Development of Groundwater Flow
- ◆ Contaminant Transport and Groundwater Monitoring
- ◆ Measurement of Surface Water Flow
- ◆ Estimation of Surface Water Flow
- ◆ Computation of Extreme Flows
- ◆ Hydraulics: Principles and Applications
- ◆ Hydraulic Principles of Structures
- ◆ Conveyance Systems: Open Channel Flow
- ◆ Pressure Flow Systems: Pipes and Pumps
- ◆ Urban Drainage Systems
- ◆ Other Drainage Systems
- ◆ Appendix

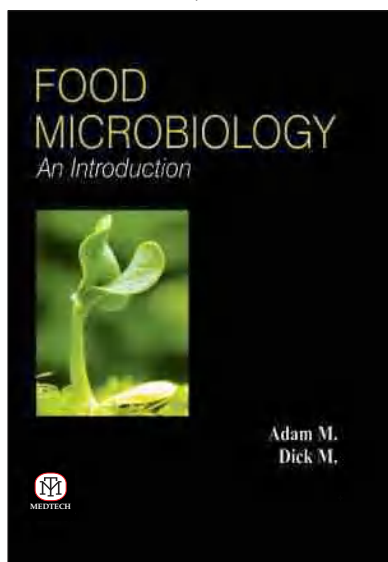
3rd (2015); 912 pp; HB; 978-93-84007-53-9; ₹4995, US \$ 128.47

PB; ₹ 1195.00

## Food Sciences

### Food Microbiology

Adam M., Dick M.



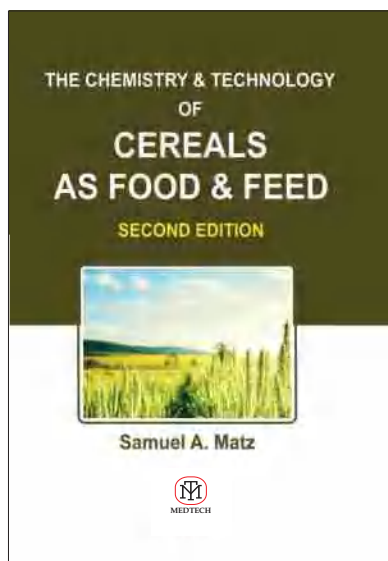
#### Contents

- ◆ Food Microbiology: A Review
- ◆ Role of Microorganisms in Food Microbiology
- ◆ Factors Affecting the Growth and Survival of Microorganisms in Food
- ◆ Microbiology of Food Preservation
- ◆ Microbiology of Primary Food Commodities
- ◆ Food Microbiology and Public Health
- ◆ Bacterial Agents of Foodborne Illness
- ◆ Non-bacterial Agents of Foodborne Illness
- ◆ Fermented Milk Products
- ◆ Fermented Vegetables
- ◆ Fermented Meat and Fish Products
- ◆ Beer, Vinegar and Mold Fermentation
- ◆ Detection, Identification and Analysis of Foodborne Pathogens
- ◆ Controlling the Microbiological Quality of Foods

Edn. 1st (2014); 436 pp; HB; 978-93-81714-61-4; ₹ 2995, US \$ 77.00

### The Chemistry & Technology of Cereals as Food & Feed

Samuel A. Matz



#### Contents

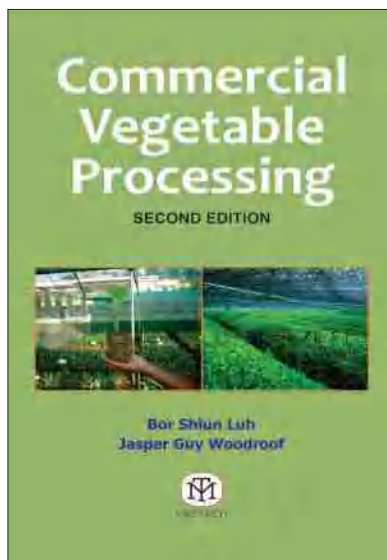
- ◆ Wheat ◆ Corn
- ◆ Oats ◆ Barley
- ◆ Rye ◆ Sorghum
- ◆ Rice ◆ Other Cereal Grains
- ◆ Important Non-cereal Grains
- ◆ Feed Manufacturing
- ◆ Milling of Wheat and Rye
- ◆ Commercial Baking Technology
- ◆ Partially Prepared Bakery Products
- ◆ Pasta Technology
- ◆ Wet and Dry Milling of Corn
- ◆ Processing of Rice
- ◆ Malting
- ◆ Brewing and Distilling
- ◆ Breakfast Cereals
- ◆ Snack Food
- ◆ Special Dietary Foods and Ingredients

Edn. 2nd (2014); 772 pp; HB; 978-93-81714-65-2; ₹ 2095, US \$ 53.88



## Commercial Vegetable Processing (Best Seller)

Bor Shiun Luh



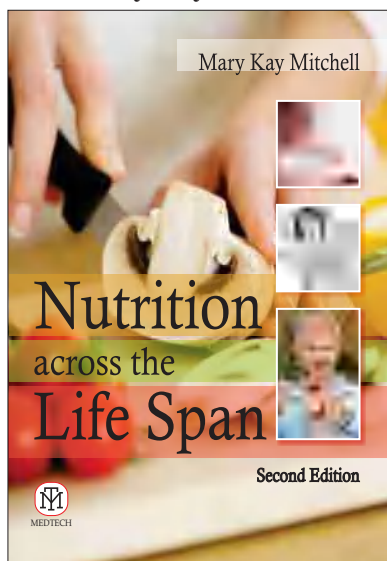
### Contents

- ◆ General Principles and Methods
- ◆ Microorganisms in relation to Vegetable Processing
- ◆ Tin, Glass and Plastic Containers
- ◆ Harvesting Handling and Storing Vegetables
- ◆ Preparing Vegetables for Processing
- ◆ Canning of Vegetables
- ◆ Vegetable Juices, Sauces and Soups
- ◆ Freezing of Vegetables
- ◆ Vegetables Dehydration
- ◆ Pickling and Fermenting of Vegetables
- ◆ Grades and Standards
- ◆ Quality Control
- ◆ Sanitation and Waste Management
- ◆ Composition and Nutritive Value of Raw and Processed Vegetables
- ◆ Storage Life and Quality Retention ◆ Nutrition Labelling
- ◆ Computerized Process Control—General Principles
- ◆ Computers in Food Processing

Edn. 2nd (2014); 800 pp; PB; 978-93-81714-64-5; ₹ 1495, US \$ 38.45

## Nutrition Across the Life Span

Mary Kay Mitchell



### Contents

#### Part One: Foundations

- ◆ Introduction to Nutrition and the Life Span
- ◆ Nutrition Screening and Assessment
- ◆ Promoting Dietary Change

#### Part Two: Reproduction: Pregnancy

- ◆ High-Risk Pregnancy ◆ Lactation and Breast-Feeding

#### Part Three: Growth and Development

- ◆ Nutrition during Infancy
- ◆ The High-Risk Infant
- ◆ Nutrition during Growth: Preschool through Preadolescence
- ◆ Nutrition for Children with Special Needs
- ◆ Nutrition During Adolescence

#### Part Four: The Adult Years

- ◆ Adulthood
- ◆ Aging and Older Adults

#### Part Five: Special Concerns Across The Life Span

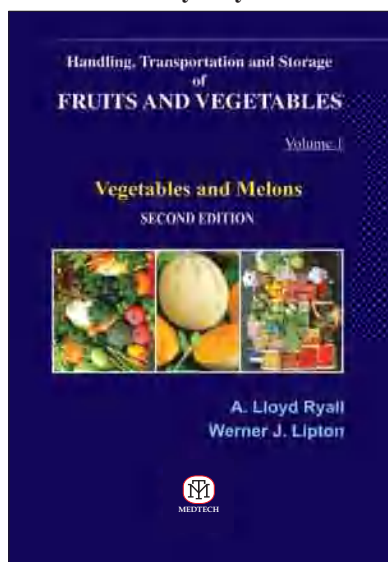
- ◆ Eating Dilemmas: Dietary Restraint, Bingeing, Purging, Excessive Consumption, and Excessive Exercise

Edn. 2nd ( 2015); 624 pp; PB; 978-93-84007-62-1; ₹ 995, US \$ 25.60



## Handling, Transportation and Storage of Fruits and Vegetables

A. Lloyd Ryall



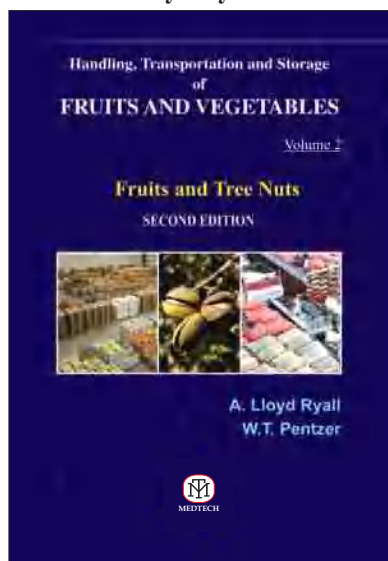
### Contents (Volume 1)

- ◆ Vegetables as Living Products—Respiration and Heat Production
- ◆ Harvesting Practices and Equipment ◆ Preparation for Market
- ◆ Shipping Containers ◆ Consumer Packages
- ◆ Commodity Requirements—Leafy Vegetables and Immature Flower Heads
- ◆ Commodity Requirements—Unripe Fruits and Miscellaneous Structures
- ◆ Commodity Requirements—Ripe Fruits
- ◆ Commodity Requirements—Underground Structures
- ◆ Treatments Prior to Shipment or Storage
- ◆ Ventilated Storage ◆ Refrigerated Storage
- ◆ Transportation by Rail and Highway
- ◆ Transportation by Air and Sea
- ◆ Market Disorders, Physical Injuries and Diseases
- ◆ Physical Injuries, Market Disorders and Diseases of Leafy Vegetables and Immature Flower Heads
- ◆ Physical Injuries, Market Disorders and Diseases of Unripe Fruits and Miscellaneous Structures

Edn. 2nd (2014); 600 pp; PB; 978-93-81714-62-1; ₹ 1095, US \$ 28.16

## Handling, Transportation and Storage of Fruits and Vegetables

A. Lloyd Ryall



### Contents (Volume 2)

- ◆ Fruit Physiology after Harvest
- ◆ Modern Harvest Methods
- ◆ The Packing House
- ◆ Containers for Shipment Packages for the Consumers
- ◆ Origin, Characteristics and Requirements of Deciduous Tree Fruits
- ◆ Origin, Characteristics and Requirements of Grapes and other Small Fruits
- ◆ Origin, Characteristics and Requirements of Subtropical Fruits
- ◆ Origin, Characteristics and Requirements of Tree Nuts
- ◆ Treatments before Shipment of Storage
- ◆ Conventional Refrigerated Storage
- ◆ Controlled Atmosphere Storage of Apples and Pears
- ◆ Transportation by Rail and Highway
- ◆ Transportation by Air and Sea
- ◆ Diseases and Injuries of Deciduous-Tree Fruits During Marketing
- ◆ Diseases and Injuries of Small Fruits During Marketing
- ◆ Diseases and Injuries of Subtropical Fruits During Marketing.

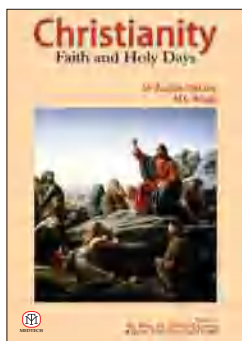
Edn. 2nd (2014); 624 pp; PB; 978-93-81714-63-8; ₹ 1095, US \$ 28.16



## General

### Christianity—Faith and Holy Days

Sir Paulias Matane

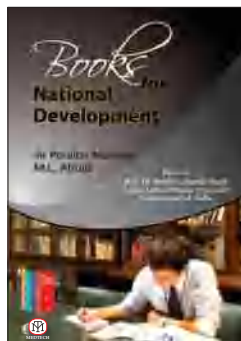


This illustrated book is in two parts. Part I studies the status of Christianity among the world religions, its spiritual belief system, life of Jesus Christ, holy scriptures, teachings of Jesus, seven major denominations of Christianity, Christian marriage, and last rites. Part II deals with Christian Holy Days, i.e. Christmas, Easter, Feast of Three Kings, Good Friday, Holy Week, Lent, Maundy Thursday, Palm Sunday, Pentecost, and Shrove Tuesday.

160 pp; PB; 978-93-81714-76-8; ₹ 250, US \$ 6.43

### Books for National Development

Sir Paulias Matane

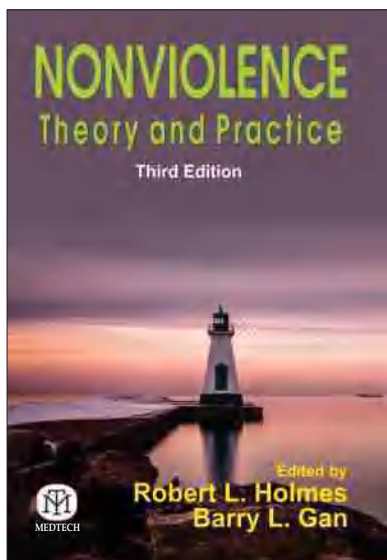


Profusely illustrated, it is a pioneering attempt to trace the development in writing material, printing and binding technology, and book development. It highlights the lessons to be learnt from the study of books, books as means of creativity, the need for inculcating reading habit, bringing in spiritual elevation and positive values and books as instrument of education. It describes e-publishing, essentials of editing, role of UNESCO, libraries, future of the book, and books in the twenty-first

278 pp; PB; 978-93-81714-37-9; ₹ 395, US \$ 10.15

## NONVIOLENCE: Theory and Practice

Robert L. Holmes



### Contents

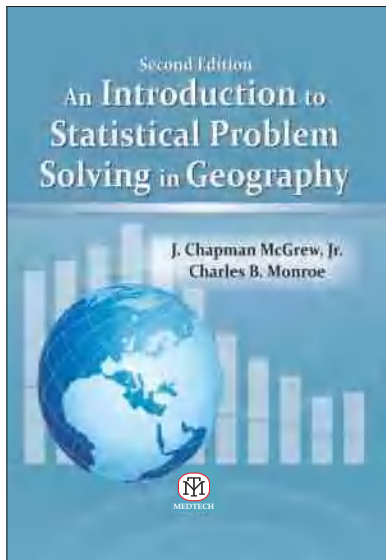
- ◆ Nonviolence in Eastern Philosophy and Religion
- ◆ Judaism, Christianity and Islam
- ◆ Secular Origins: Challenges to Injustice and Government Power
- ◆ Nonresistance to Evil
- ◆ From Passive Resistance to Direct Action
- ◆ Active Nonviolence
- ◆ The Pioneers
- ◆ Women and Militant Nonviolence in the Nuclear Age
- ◆ Contemporary Feminism and Nonviolence
- ◆ Personal Perfection
- ◆ Nonviolence as a Political Tool
- ◆ Principled Political and Labor Nonviolence
- ◆ Nonviolence, Nature and Animal Rights
- ◆ Nonviolence in Asia
- ◆ Nonviolence in Africa
- ◆ Nonviolence in the West
- ◆ Nonviolence in the Middle East.

Edn. 3rd (2015); 416 pp; PB; 978-93-84007-31-7; ₹ 395

## Geography

### An Introduction to Statistical Problem Solving in Geography

J. Chapman McGrew, Jr.



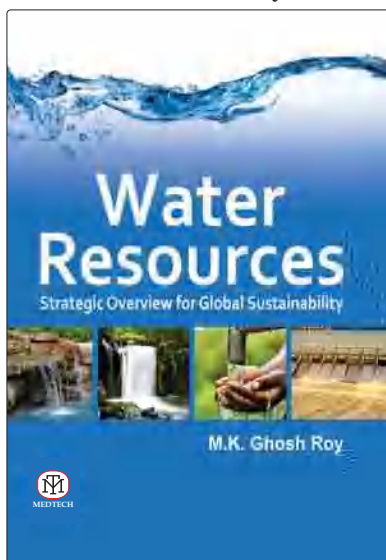
#### Contents

- ◆ Introduction: The Context of Statistical Techniques
- ◆ Geographic Data: Characteristics and Preparation
- ◆ Descriptive Statistics
- ◆ Descriptive Spatial Statistics
- ◆ Probability
- ◆ Basic Elements of Sampling
- ◆ Estimation in Sampling
- ◆ Elements of Inferential Statistics
- ◆ Two-Sample and Matched-Pairs (Dependent-Sample) Difference Tests
- ◆ Three-or-More-Sample Difference Tests: Analysis of Variance Methods
- ◆ Goodness-of-Fit and Categorical Difference Tests
- ◆ Inferential Spatial Statistics
- ◆ Correlation
- ◆ Regression
- ◆ Epilogue: Geographic Problem Solving in Practical Situations

Edn. 2nd (2015); 264 pp; PB; 978-93-84007-30-0; TBA

### Water Resources—Strategic Overview for Global Sustainability

M.K. Ghosh Roy



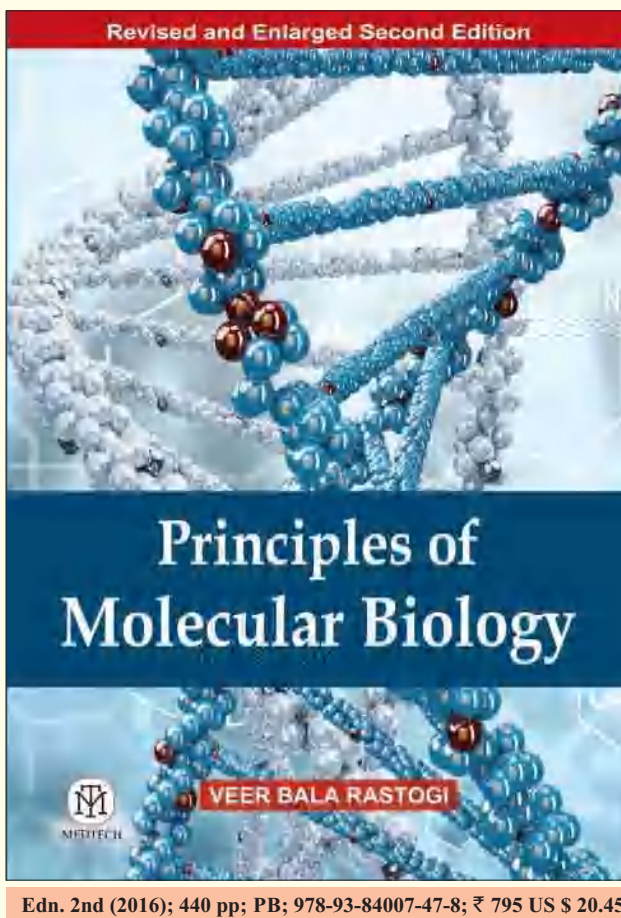
#### Contents

- ◆ Historical Perspectives on Water Usage and Development
- ◆ Overview on Global Supply and Demand of Water
- ◆ Strategic Studies For Future Availability of Water—Applications of warm & Virtual Water
- ◆ Challenges of Indian Water Resources
- ◆ Water and Agriculture—Strategic Review
- ◆ Climate Change and Water Availability
- ◆ Some International Water Conflicts
- ◆ Wetland—Issues of Eco-Sustainability
- ◆ Groundwater Hydrology
- ◆ Some Important Rivers in the World
- ◆ Quality of Water
- ◆ Freshwater Treatment and Processes
- ◆ Wastewater Treatment and Processes.

Edn. 1st (2015); 336 pp; PB; 978-93-84007-33-1; ₹ 495, US \$ 12.75

*Best Seller*

Life Sciences

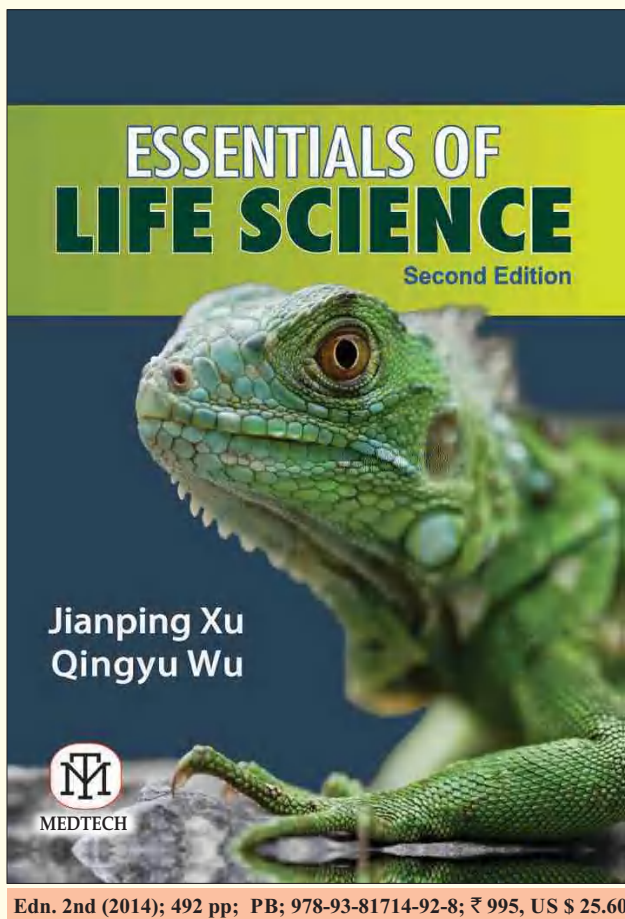


### About the Book

The book Molecular Biology has been designed according to the course of Honours and Postgraduate level of different universities of India. It gives an extensive but brief coverage of the fundamentals of molecular biology. It describes in lucid language the molecular steps that cell use to replicate and repair DNA expression of genes, process and translate the coded information in mRNA and regulate protein synthesis.

### Contents

Introduction to Molecular Biology ♦ The Chemical Basis of Life Atoms and ♦ Molecules ♦ Molecules of Life: Biomolecules ♦ Methods Used to Study Macromolecules ♦ Identification of Genetic Material ♦ Deoxyribonucleic Acid (DNA) ♦ Organisation of Genome ♦ DNA Replication ♦ DNA Repair ♦ Ribonucleic Acid ♦ Transcription and Processing of RNA ♦ Genetic Code ♦ Protein Synthesis ♦ Gene: Its Expression in Prokaryotes and Eukaryotes ♦ Regulation of Gene Expression or Regulation of Protein Synthesis ♦ Regulation of Gene Expression in Eukaryotes ♦ Genetic Engineering or Recombinant DNA Technology ♦ Glossary

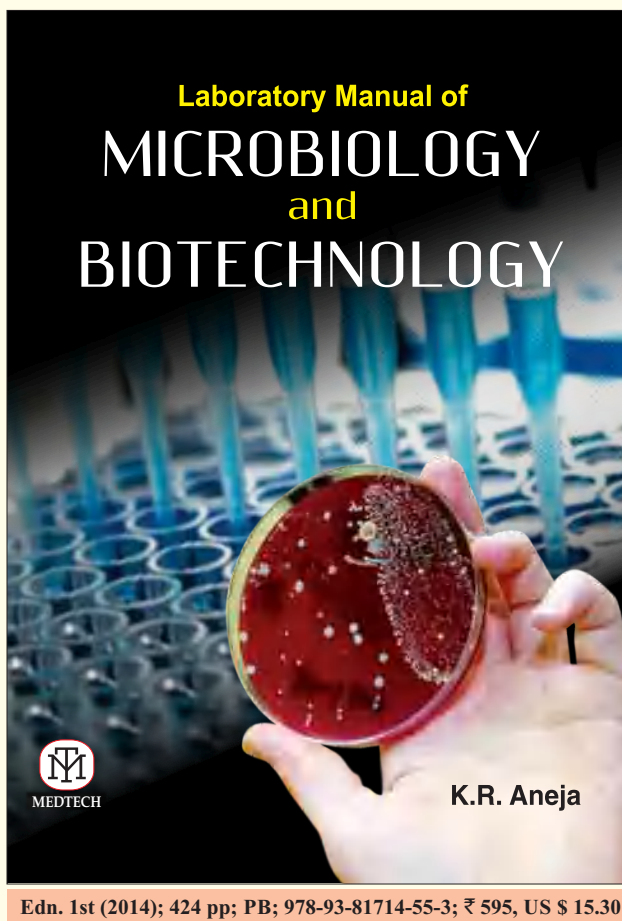


## About the Book

The book **Essentials of Life Science** is designed to center to the needs of those who want to know more and more about Life Science. The book consists of 12 chapters. The colourful illustrations provide a lucid explanation of life and life sciences, the chemical basis of life, the cell as the basic structural unit of living organisms, energy and metabolism, the laws and molecular basis of inheritance development, evolution plants and their structure and function, animals, their structure and function, human health and diseases, and biotechnology and the future of humanity. The broad array of innovative print and technology resources, Life Science helps to teachers differentiate and accommodate all learners. Life offers balanced experimental coverage; this second edition has been updated with the latest scientific research, a new contemporary design and cutting-edge teaching and learning support to engage and encourage learning and revision. It should serve as an ideal textbook for the understanding of the subject.

## Contents

Life and Life Science ♦ The Chemical Basis of Life ♦ The Cell – The Basic Structural Unit of Living Organisms ♦ Energy and Metabolism ♦ The Laws and Molecular Basis of Inheritance ♦ Development ♦ Evolution ♦ Plants: Structure and Function ♦ Human Health and Diseases ♦ Biotechnology and the Future of Humanity.

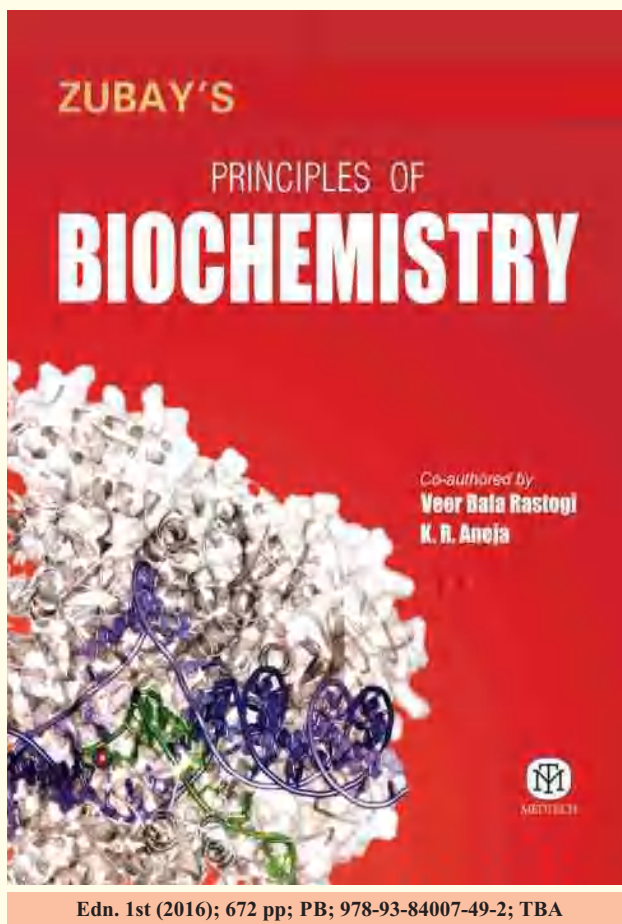
**About the Book**

The book contains 144 exercises in a single tool essential for undergraduate and postgraduate courses in diverse areas of microbiology, biotechnology, biosciences, health-sciences, environmental science, agriculture, nutrition, pharmacy, medical laboratory technology, food processing units, and diagnostic laboratories. An in depth discussion of the principle involved; easy to follow the pattern of methodology with explanatory diagrams; expected results with interpretation profusely illustrated with coloured photographs to help students to perform practicals with their utmost ease in quest of achieving hundred per cent success.

**Contents**

Laboratory Safety Rules and Regulations ♦ Principle and Working of Basic Equipment ♦ Microscopy and Basic Microbiological Techniques ♦ Staining Techniques for Bacteria ♦ Biochemical Tests ♦ Culture Media Preparation ♦ Basic Microbiological Techniques for Culturing Bacteria ♦ Methods Used for Identifying Unknown Bacterial Isolates ♦ Study of Environmental Influences on Microbial Growth ♦ Evaluation of Antimicrobial Agents ♦ Microbial Genetics and Molecular Techniques in Biotechnology ♦ The Fungi: Molds, Yeasts and Mushrooms ♦ Parasitic Protozoa and Helminths ♦ Virology ♦ Agricultural Microbiology ♦ Environmental (Soil, Air, Water) Microbiology ♦ Applied Microbiology and Biotechnology ♦ Medical Microbiology and Immunology.





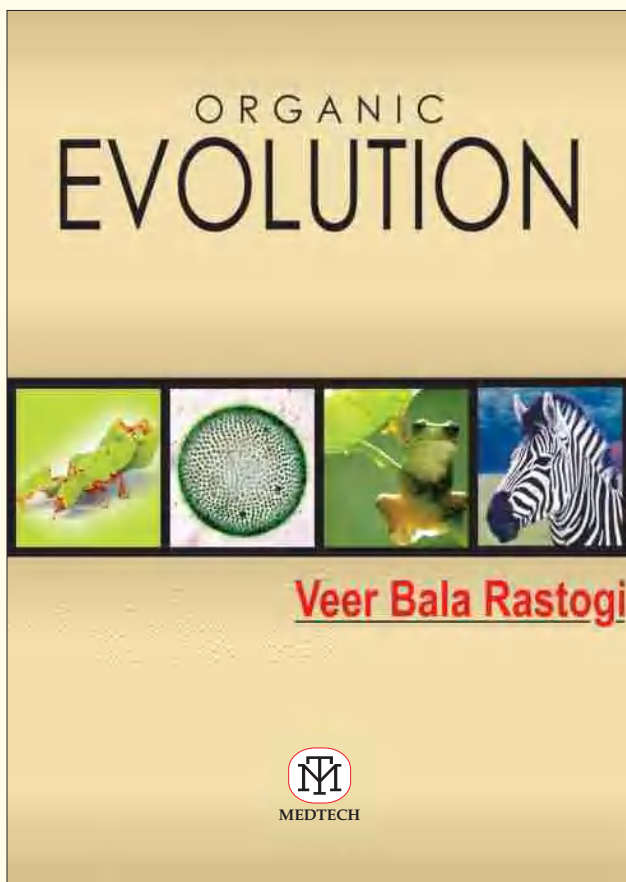
Edn. 1st (2016); 672 pp; PB; 978-93-84007-49-2; TBA

## About the Book

This authoritative textbook, Principles of Biochemistry, has been prepared by three distinguished authors of Chemistry/Biochemistry known for their academic excellence and pedagogical approach in teaching the subject at graduate and post-graduate level. The book is divided into six parts: Part I deals with Molecular Basis of Life, Part II explores about Biomolecules, Part III provides a systematic approach to Enzymes, Part IV deals with Metabolism, Part V describes Regulation and Expression of Genes, and Part VI deals with Genetic Engineering. The high quality illustrations and lucid language of the text make it easy for students to grasp the subject and its nuances quite easily.

## Contents

**Part I: Molecular Basis of Life**—An introduction to biochemistry ♦ Biochemical evolution. **Part II: Biomolecules**—Water and its effect on biomolecules ♦ Amino acids and peptides ♦ Structure and functions of proteins ♦ Carbohydrates ♦ Lipids ♦ Nucleic acids ♦ Biological membranes and transport mechanisms. **Part III: Enzymes**—Properties and mechanism of action of enzymes. **Part IV: Metabolism**—Biosignalling pathways and role of enzymes ♦ Principles of Bioenergetics ♦ Glycolysis, gluconeogenesis, and pentose phosphate pathway ♦ Mitochondrial electron transport chain ♦ Photosynthesis ♦ Carbohydrate biosynthesis ♦ Synthesis of amino acids and nucleotides ♦ Synthesis and degradation of fatty acids ♦ Oxidation of amino acids ♦ Integration and horm♦ Regulation of gene expression in prokaryotes and eukaryotes **Part VI: Genetic Engineering**—Gene cloning and its role in the field of biochemistry.



Edn. 1st (2014); 416 pp; PB; 978-93-81714-51-5; ₹ 695, US \$ 17.87

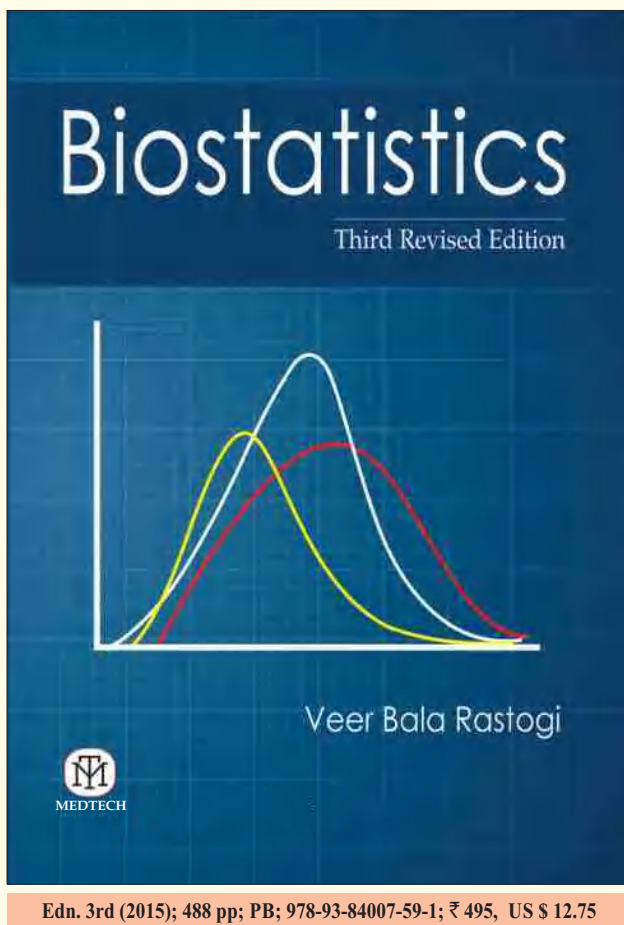
### About the Book

This book on Organic Evolution is an updated exposition of the subject to include the latest concepts, theories and observations in a simple and lucid language.

1. Part-I deals with concepts, evidences and theories of evolution. Part-II peeps into the Mechanism of Evolution. Part-III provides a systematic approach to the process of Speciation. Part-IV explores the basic patterns of Evolution, and Part-V provides an insight into the origin of life, fossil-records and history of life on Earth.
2. Text is profusely illustrated with diagrams to ensure an easy comprehension of the underlying concepts.
3. The book would be a useful textbook for students of biological sciences.

### Contents

Concept of Evolution ♦ Evidences of Evolution ♦ Theories of Evolution ♦ Variation ♦ Gene Mutations ♦ Chromosomal Aberrations ♦ Variation in Chromosome Number (Heteroploidy) ♦ Reproductive Isolating Barriers ♦ Population Genetics, Gene Frequencies and Hardy-Weinberg Equilibrium ♦ Persistence of Variability within Populations: Polymorphism ♦ From Population to Species (Speciation) ♦ Genetic Drift and Gene Flow ♦ Natural Selection in Action ♦ Evolution of Genes and Genomes ♦ Patterns of Evolution ♦ Microevolution and Macroevolution ♦ Adaptations ♦ Origin of Life on Earth ♦ History of Life on Earth ♦ Fossils and Fossil Records ♦ Origin and Evolution of Horse ♦ Origin and Evolution of Man.



Edn. 3rd (2015); 488 pp; PB; 978-93-84007-59-1; ₹ 495, US \$ 12.75

## About the Book

Third Revised Edition of the Fundamentals of Biostatistics, rich in contents through the addition of some useful chapters, provides an indepth yet basic knowledge of Biostatistics and its applications to students at graduate and postgraduate levels who are pursuing subjects like Zoology, Botany, Microbiology, Agriculture, Environmental Biology, Public Health, Medical, Nursing and Paramedical, etc. The book, written in simple language, illustrates the problems that one commonly comes across in everyday life. The real life examples taken from biological and other relevant fields are unique features of the book. Statistical methods have been discussed at the end of each topic accompanied by step by step solutions of the given exercises. This revised and enlarged edition will be found increasingly useful with additional and updated information. Almost every chapter has some additional information and a large number of solved examples.

## Contents

Introduction to Biostatistics ♦ Statistical Data ♦ Organisation and Classification of Data ♦ Frequency Distribution ♦ Representation of Data ♦ Measures of Central Tendency ♦ Measures of Location or Averages of Partition Values ♦ Measures of Variability or Dispersion ♦ Probability ♦ Set Theory and Venn Diagram ♦ Probability Distribution: Normal Distribution ♦ Probability Distribution (Binomial and Poisson Distribution) ♦ Inferential Statistics, Hypothesis Testing and Test of Significance ♦ Nonparametric or Distributionfree Statistical Tests ♦ Correlation ♦ Regression ♦ Student's t-Test ♦ Analysis of Variance (ANOVA or F-Ratio) ♦ Chi-square Test ♦ Demography and Vital Statistics ♦ Measures of Population and Vital Statistics ♦ Designing and Methodology of an Experiment.

**About the Book**

The preliminary drafts of the book and laboratory manual were developed and have evolved during the 18 years since the inception and implementation of the SMBCP. These materials are grounded in the philosophy that the concepts of science support the processes of science, and that information is accessed and learned as it is needed to conduct more experimentation and analysis. Although the textbook and laboratory manual appear traditional in many ways, the lab manual is a “staircase” of skill development activities, each building upon previous ones, allowing students to develop and demonstrate their proficiency before moving to the next level. The text provides background to prepare students for their lab experiences as well as information to give students perspective on how and where the techniques and technologies are used in biotechnology research and manufacturing.

**Contents**

What is Biotechnology ♦ The Raw Materials of Biotechnology ♦ The Basic Skills of the Biotechnology Workplace ♦ Introduction to Studying DNA ♦ Introduction to Studying Proteins ♦ Identifying a Potential Biotechnology Product ♦ Spectrophotometers and Concentration Assays ♦ The Production of a Recombinant Biotechnology Product ♦ Bringing a Biotechnology Product to Market ♦ Introduction to Plant Biotechnology ♦ Biotechnology in Agriculture ♦ Medical Biotechnologies ♦ DNA Technologies ♦ Biotechnology Research and Applications: Looking Forward.



Edn. 1st (2016); 208 pp; PB; 978-93-81714-73-7; ₹ 395, US \$ 10.15

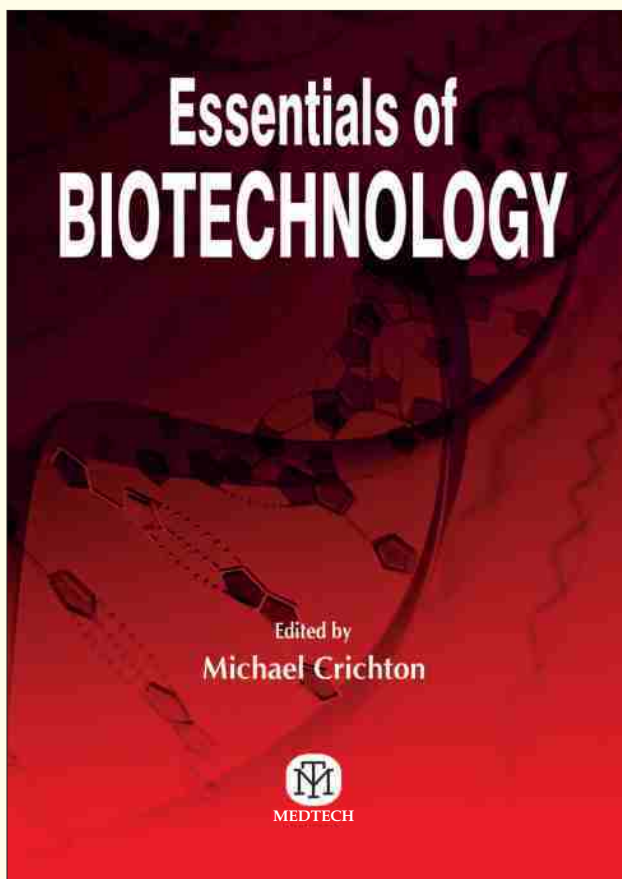
## About the Book

The book is designed as a standard practical textbook for undergraduates and it is equally useful for postgraduates. It contains 43 chapters and divided into seven sections. Six important techniques explained in Section VII of the book should make it an indispensable textbook. It is an important subject for the students of biology, chemistry, medicine and agriculture.

## Contents

Solutions and Buffer ♦ Quality Control ♦ Automation ♦ Laboratory Hazards and Safety ♦ Specimen Collection and Preservation ♦ Colour Reactions of Carbohydrates ♦ Colour Reactions of Proteins ♦ Colour Reactions of Lipids ♦ Examination of Urine ♦ Dry Chemistry Analysis ♦ Introduction to Volumetric Analysis ♦ Gastric Juice Analysis ♦ Estimation of Reducing Sugar in Urine ♦ Estimation of Serum Calcium ♦ Estimation of Blood Chloride ♦ Estimation of Serum Bicarbonate ♦ Arterial Blood Gas Analysis ♦ Colorimetry and Spectrophotometry ♦ Blood Glucose ♦ Serum Proteins, Albumin and A/G Ratio ♦ Serum Creatinine ♦ Blood Urea ♦ Serum Uric Acid ♦ Serum Bilirubin ♦ Serum Cholesterol ♦ Serum Triglyceride ♦ Serum Inorganic Phosphate ♦ Cerebrospinal Fluid Analysis ♦ Transaminases (ALT & AST) ♦ Alkaline Phosphatase ♦ Acid Phosphatase ♦ Lactate Dehydrogenase ♦ Serum Amylase ♦ Liver Function Tests ♦ Kidney Function Tests ♦ Thyroid Function Tests ♦ Cardiac Function Tests ♦ Sodium and Potassium Estimations by Flame Photometry.





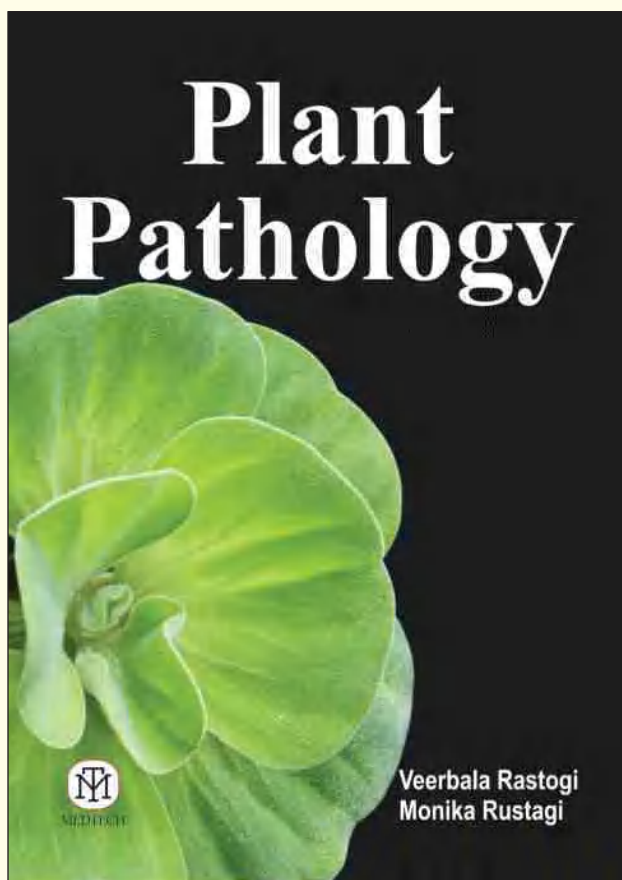
1st (2014); 572 pp; PB; 978-93-81714-49-2; ₹ 795, US \$ 20.44  
HB; 978-93-81714-69-0; ₹ 1995, US \$ 51.30

### About the Book

Biotechnology, a field of applied biology and multi-disciplinary course, in the fields like microbiology, biochemistry, molecular biology, genetics, chemistry and chemical engineering. The book cites examples how these principles are put into operation. It deals with bio-molecules, macromolecules, basic concepts and applications of biotechnology, recombinant DNA technology, animal tissue culture, animal biotechnology, transgenic animals tracks, plant tissue culture, plant biotechnology, transgenic plants, healthcare, general and industrial biotechnology, environmental biotechnology, intellectual property right, etc. The book should be useful as textbook for the **undergraduate and postgraduate students of biotechnology, agriculture, veterinary science and environmental science.**

### Contents

Biomolecules ♦ Macromolecules ♦ Basic Concepts and Applications of Biotechnology ♦ Fermentation Biotechnology ♦ Recombinant DNA Technology ♦ Animal Tissue Culture ♦ Animal Biotechnology ♦ Transgenic Animals ♦ Plant Tissue Culture ♦ Plant Biotechnology ♦ Transgenic Plants ♦ Biotechnology and Healthcare ♦ General and Industrial Microbiology ♦ Enzyme Biotechnology ♦ Food and Beverages ♦ Fuel Biotechnology ♦ Environmental Biotechnology ♦ Bioinformatics and Biotechnology ♦ Intellectual Property Right in Biotechnology.



Edn. 1st (2016); 900 pp; PB; 978-93-84007-72-0; ₹ TBA

## **About the Book**

Plant Pathology provides each instructor with all the significant new developments in each area and gives the instructor choices in the type and amount of general concepts material and of specific diseases. Each chapter begins with a fairly detailed, well-organized table of contents that can be used by students and instructors as an outline for the chapter. This edition makes this possible by covering and illustrating in full color a wide variety of diseases, some of which are important to the grain plains of India and part of the World. However, all aspects of the book have been thoroughly updated and illustrated. Newly discovered diseases and pathogens are described, and changes in pathogen taxonomy and nomenclature are incorporated in the text. The chapters on diseases caused by prokaryotes (bacteria and mollicutes), especially the one on diseases caused by plant viruses and viroids, have been revamped due to the large amount of new information published in recent years about such pathogens and diseases.

## **Contents**

Introduction ♦ Parasitism And Disease Development ♦ Effects Of Pathogens On Plant Physiological Functions ♦ Genetics Of Plant Disease ♦ How Pathogens Attack Plants ♦ How Plants Defend Themselves Against Pathogens ♦ Environmental Effects On The Development Of Infectious Plant Disease ♦ Plant Disease Epidemiology ♦ Control Of Plant Diseases ♦ Environmental Factors That Cause Plant Diseases ♦ Plant Diseases Caused By Fungi ♦ Plant Diseases Caused By Prokaryotes: Bacteria And Mollicutes ♦ Plant Diseases Caused By Parasitic Higher Plants, Invasive Climbing Plants, And Parasitic Green Algae ♦ Plant Diseases Caused By Viruses ♦ Plant Diseases Caused By Nematodes.



## Gene Expression in Animal Development

D.N. Choubey



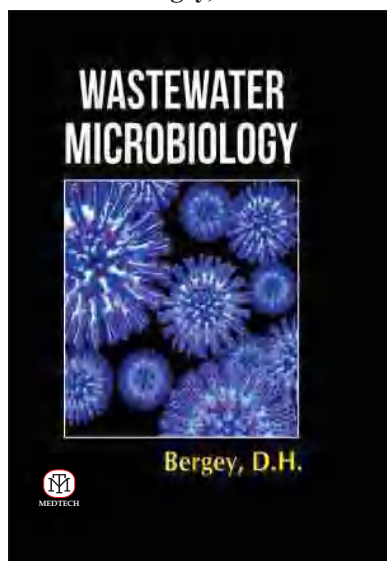
### Contents

- ♦ Introduction
- ♦ Nuclear Transplantation and Somatic Cell Genes
- ♦ Translational Control and Message-Injection into Living Cells
- ♦ Gene Transcription and the Initiation of Cell Differentiation
- ♦ General Conclusions
- ♦ Appendix
- ♦ Glossary
- ♦ References and Author Index
- ♦ Subject Index

Edn. 1st (2016); 168 pp; PB; 978-93-84007-88-1; ₹ 395, US \$ 10.15

## Wastewater Microbiology

Bergey, D.H.



### Contents

Basic Concepts of Microorganisms ♦ Microbial Metabolism and Growth Kinetics ♦ Microbial Aspects of Biogeochemical Cycles ♦ Pathogens and Parasites in Domestic Wastewater ♦ Indicators, Coliforms and Fecal Streptococci ♦ Microbial Source Tracking ♦ Wastewater Disinfection ♦ Wastewater Treatment ♦ Reuse of Wastewater ♦ Waste Stabilisation Ponds ♦ Biological Aerosols and Bio-odours from Wastewater Treatment Plants ♦ Activated Sludge Process ♦ Sludge Microbiology ♦ Bulking and Foaming in Activated Sludge Plants ♦ Processes Based on Attached Microbial Growth ♦ Anaerobic Digestion of Wastewater and Biosolids ♦ Biotechnology and Pollution Prevention ♦ Public Health Aspects of Wastewater and Biosolids Disposal on Land ♦ Public Health Aspects of Contamination of Recreation Water with Wastewater ♦ Fate of Xenobiotics and Toxic Metals in Waste Treatment Plant ♦ Toxicity Testing in Wastewater Treatment Plants using Microorganisms.

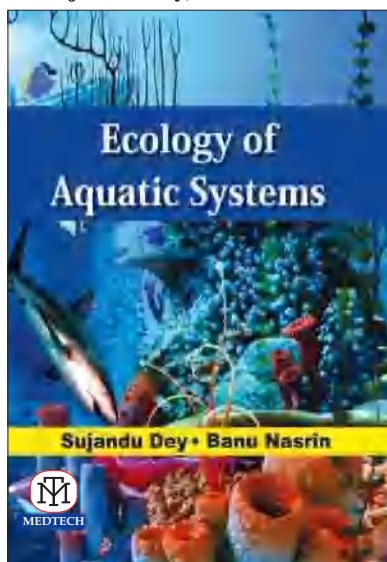
Edn. 1st (2014); 668 pp; HB; 978-93-81714-74-4; ₹ 2995, US \$ 77.00



*Engaging Sciences—Developing Minds!*

## Ecology of Aquatic Systems

Sujandu Dey, Banu Nasrin



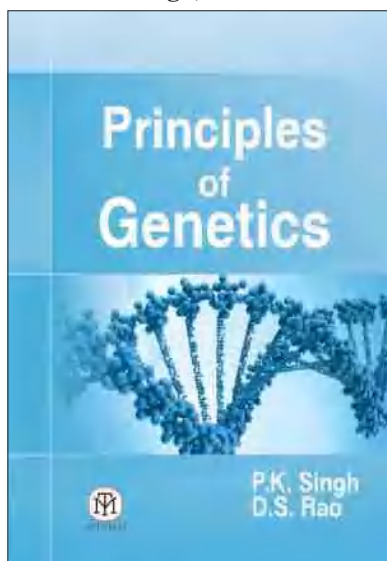
### Contents

- ♦ Live in aquatic systems
- ♦ Rivers
- ♦ Estuaries
- ♦ The coastal zone
- ♦ The open ocean
- ♦ Lakes and ponds
- ♦ Wetlands
- ♦ The aquatic system

Edn. 1st (2015); 232 pp; PB; 978-93-84007-05-8; ₹ 695, US \$ 17.90

## Principles of Genetics

P.K. Singh, D.S. Rao



### Contents

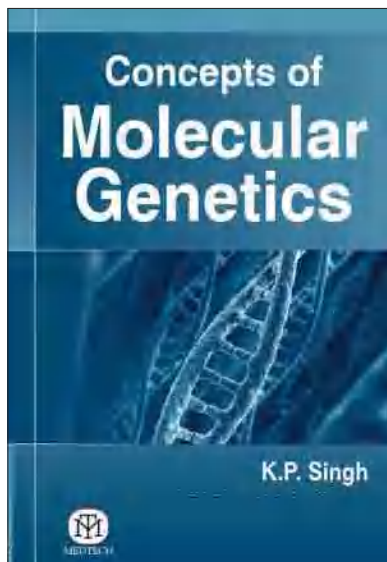
- ♦ Heredity and the Continuity of Life ♦ Heredity and Environment
- ♦ Mendel's Law of Segregation ♦ Segregation of Genes and Simple Mendelian Traits in Man ♦ Mendel's Principle of Independent Assortment ♦ The Expression and Interaction of Genes ♦ Multiple-factor Inheritance ♦ Allelism and Pleiotropism ♦ Lethal Genes, Penetrance, and Expressivity ♦ The Nature-nurture Problem in Man: Twin Studies ♦ Sex-linked Inheritance ♦ linkage and Crossing Over
- ♦ Genetic Maps of Chromosomes ♦ Chromosome Aberrations and Cytological Maps ♦ Spontaneous Mutation ♦ Induced Mutation
- ♦ Genes In Populations ♦ Crossing, Selfing, Inbreeding, and Heterosis
- ♦ Genetics of Race Formation ♦ Genetics of Species Formation
- ♦ Determination of Sex ♦ Varieties of Sexual Reproduction
- ♦ Physiological Genetics ♦ The Genic Control of Development
- ♦ Cytoplasm In Heredity and Development ♦ The Elements of The Genetic System ♦ Organization of the Genetic Material ♦ Statistical Inference in Genetics ♦ Appendix ♦ Bibliography ♦ Index

Edn. 1st (2016); 480 pp; PB; 978-93-84007-97-3; ₹ TBA



## Concepts of Molecular Genetics

K.P. Singh



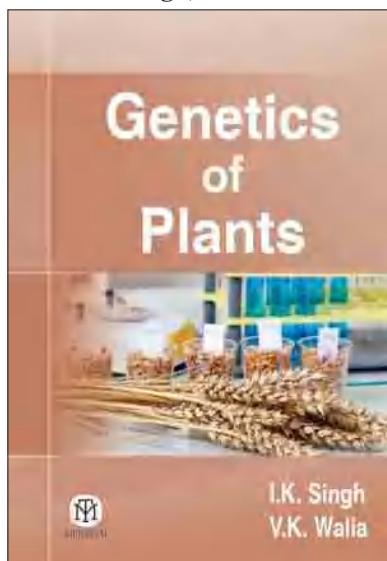
### Contents

- ◆ DNA: The Primary Genetic Material
- ◆ Genetic Transcription and Translation: The Role of the RNAs in Protein Synthesis
- ◆ Gene Enzyme Relationships: Genetic Control of Cellular Metabolism
- ◆ Mutation: A Molecular View of the Process and its Consequences
- ◆ Genetic Regulation: Cellular Control Systems
- ◆ Genetic Recombination: Its Mode and Mechanism in Microorganisms
- ◆ Gene Fine-Structure Analysis
- ◆ Prospective

1st (2016); 144 pp; PB; 978-93-84007-86-7; ₹ 395, US \$ 10.15

## Genetics of Plants

I.K. Singh, V.K. Walia



### Contents

- ◆ The Genetics of diploid Plants
- ◆ The cytology of diploid plants
- ◆ The cytology and genetics of polyploids
- ◆ Flowering and ornamental plants
- ◆ The chemical and Genetical basis of Flower Colour
- ◆ Vegetable and Salad Plants
- ◆ Fruits
- ◆ Bud-Sports, Variations and Fluctuations
- ◆ Incompatibility
- ◆ Sterility
- ◆ The origin of New and improved forms
- ◆ Vegetable and Salad Plants
- ◆ Fruits
- ◆ Bud-Sports, Variations and fluctuations
- ◆ Incompatibility
- ◆ Sterility
- ◆ The origin of new and improved forms ◆ Appendices

1st (2016); 260 pp; PB; ₹ 395, US \$ 10.15





*Engaging Sciences—Developing Minds!*

## Knowledge Management for Sustainable Development

Usha Mujoo Munshi

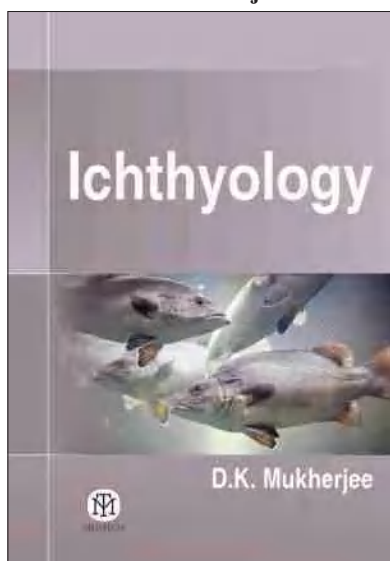


### Contents

- ◆ Economics of Knowledge
- ◆ Knowledge Management with the MASK Method
- ◆ Knowledge Management for Successful Rollout of E-Governance Projects
- ◆ Addressing Climatic and Disaster Risks through Knowledge Systems: Quest for Responsible Governance
- ◆ Climate Compatible Development and Knowledge Network
- ◆ K-economy in SAARC Region: An Exploratory Study
- ◆ Knowledge Management through ICT for Sustainable Development: Research Needs for SAARC Countries
- ◆ Converging Indigenous Knowledge with ICT: K-framework for e-Governance Initiatives in Developing Countries
- ◆ Developmental Perspectives in Information and Knowledge Society
- ◆ Building Knowledge for Organizational Effectiveness
- ◆ Futuristic Perspectives in Indian Higher Education: Significance of Capability Approach
- ◆ Potential of Knowledge Management in Disaster Risk Reduction in India.

1st (2014); 624 pp; HB; 978-93-81714-72-0; ₹ 1295, US \$ 33.30

D.K. Mukherjee



## Ichthyology

### Contents

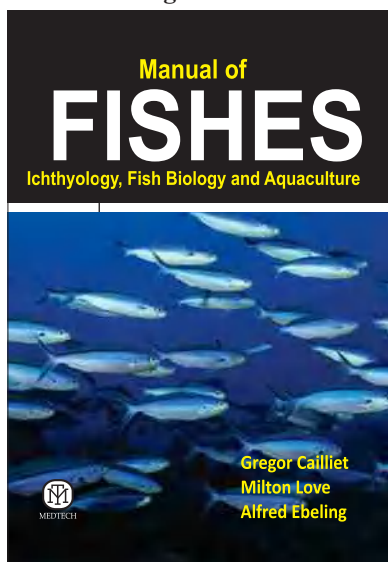
- ◆ Acknowledgements
- ◆ Introduction
- ◆ The History of Ichthyology
- ◆ How Many Fishes are there, What Kind, and Where Do They Live?
- ◆ Morphology
- ◆ Phylogeny of Teleostean Fishes
- ◆ Swimming and Body Form
- ◆ Buoyancy Regulation
- ◆ Respiration
- ◆ Feeding
- ◆ Sensory Mechanisms
- ◆ Osmoregulation
- ◆ Reproduction
- ◆ Behavior and Other Adaptations

Edn. 1st (2016); TBA pp; PB; 978-93-85998-09-6; Price: TBA



## Manual of Fishes—Ichthyology, Fish Biology and Aquaculture

Gregor Calliet



### Contents

#### Section One: Morphology of Fishes

- ◆ Form and Function : Basic Anatomy: External
- ◆ Basic Anatomy: Internal
- ◆ Osteology of Bony Fishes
- ◆ Muscular Morphology of Bony Fishes
- ◆ Exercises in Functional Morphology

#### Section Two: Taxonomic Characters in Identification, Variation, and Classification

- ◆ Finding and Measuring Characters
- ◆ Key Characters and Identification of taxa
- ◆ Character Trends and Morphological Variation
- ◆ Shared Characters and Classification

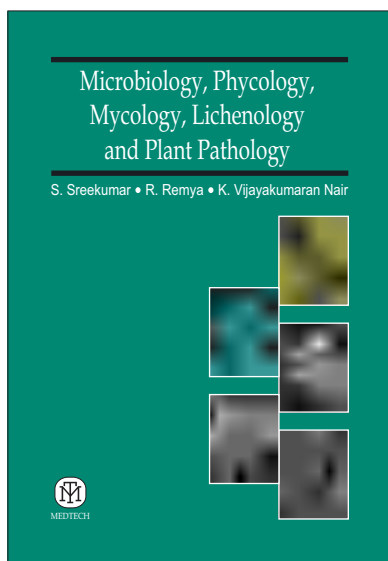
#### Section Three: Natural History of Fishes

- ◆ Habitats: Collecting and Survey Techniques
- ◆ Care and Handling of Specimens
- ◆ Age and Growth ◆ Feeding ◆ Reproduction
- ◆ Parasites ◆ Anomalous Fishes

Edn. 1st (2015); 204 pp; PB; 978-93-84007-58-4; ₹ 495, US \$ 12.73

## Microbiology, Phycology, Mycology, Lichenology and Plant Pathology

S. Sreekumar



### Contents

#### Part I: Microbiology

- ◆ Introduction ◆ Bacteria ◆ Viruses
- ◆ Branches of Microbiology

#### Part II: Phycology

- ◆ Introduction
- ◆ Cyanophyceae
- ◆ Chlorophyceae
- ◆ Xanthophyceae
- ◆ Bacillariophyceae
- ◆ Phaeophyceae ◆ Rhodophyceae

#### Part III: Mycology

- ◆ Introduction ◆ Myxomycotina ◆ Mastigomycitina
- ◆ Zygomycotina ◆ Ascomycotina ◆ Basidiomycotina
- ◆ Deuteromycotina

#### Part IV: Lichenology

- ◆ Introduction ◆ Usnea

#### Part V: Plant Pathology

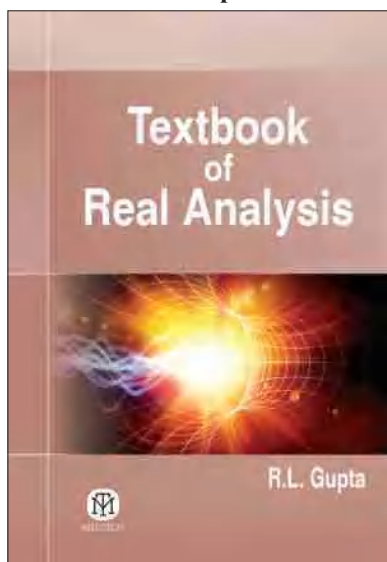
- ◆ Introduction ◆ Plant Disease Control

Edn. 1st (2015); 320 pp; PB; 978-93-84007-67-6; ₹ 250, US \$ 6.45

## Mathematics

### Textbook of Real Analysis

R.L. Gupta



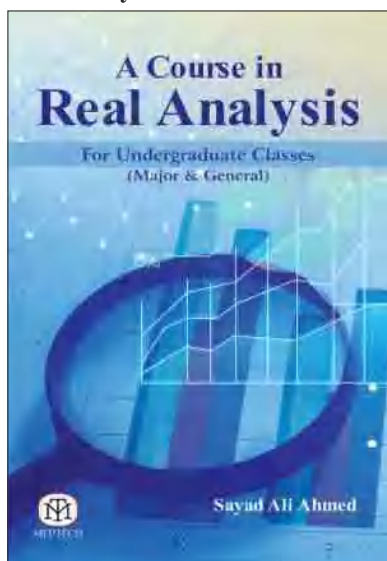
#### Contents

- ♦ Preliminaries
- ♦ Families of Sets
- ♦ Measures
- ♦ Construction of measures
- ♦ Measurable functions
- ♦ The Lebesgue integrals
- ♦ Limit Theorems
- ♦ Properties of Lebesgue integrals
- ♦ Riemann integrals
- ♦ Types of convergence

Edn. 1st (2016); 420 pp; PB; 978-93-84007-83-6; ₹ 395, US \$ 10.15

### A Course in Real Analysis

Sayad Ali Ahmed



#### Contents

- ♦ Real Numbers
- ♦ Subsets Of Real Numbers
- ♦ Sequence Of Real Number
- ♦ Infinite Series
- ♦ Continuous Function
- ♦ Derivative
- ♦ Mean Value Theorem
- ♦ Indeterminate Forms
- ♦ Maxima And Minima
- ♦ References
- ♦ Index

Edn. 1st (2016); 740 pp; PB; 978-93-84007-99-7; ₹ 395, US \$ 10.15



## Medical Sciences

### Pathology (Best Seller)

Aiman Zaher, M.D.



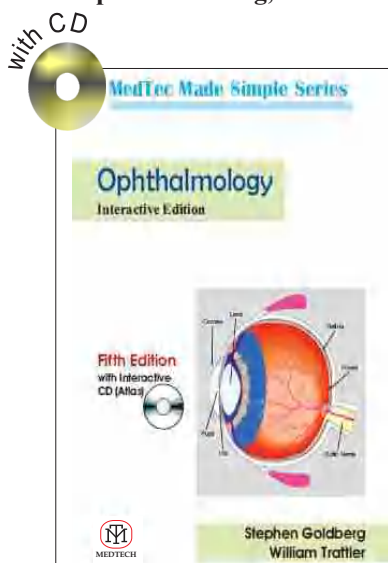
#### Contents

- ◆ Cellular Response to Injury
- ◆ Neoplasia
- ◆ Molecular Pathology
- ◆ Cardiovascular Pathology
- ◆ Hematopathology
- ◆ Lung Pathology
- ◆ Gastrointestinal Tract Pathology
- ◆ Renal and Urinary Tract Pathology
- ◆ Male Reproductive System
- ◆ Female Reproductive System
- ◆ Breast Pathology
- ◆ Endocrine Pathology
- ◆ Dermatopathology
- ◆ Soft Tissue, Bone, and Joint Pathology
- ◆ Nervous System Pathology
- ◆ Index.

Edn. 1st (2013); 240 pp; PB; 978-93-81714-17-1; ₹ 395, US \$ 10.15

### Ophthalmology

Stephen Goldberg, M.D.



#### Contents

- ◆ Anatomy
- ◆ Visual Disorders
- ◆ The Red Eye
- ◆ Ocular Trauma
- ◆ Retinal Disease
- ◆ Neuro-ophthalmology
- ◆ Ocular Findings in Systemic Disease
- ◆ Ophthalmologic Techniques: Assessment of visual acuity, The direct ophthalmoscope, The indirect ophthalmoscope, Application of fluorescein strips and ophthalmic drops and ointments, Assessing the depth of the anterior chamber angle, Removal of a foreign body, Securing an eye patch, The slit lamp. Cataract surgery
- ◆ Clinical Review
- ◆ Glossary
- ◆ Index.

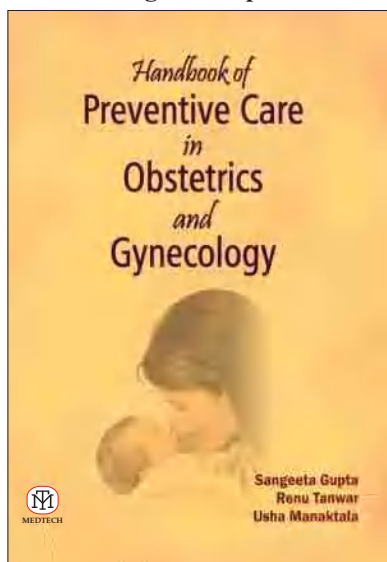
Edn. 5th (2013); 96 pp; PB; 978-93-81714-21-8; ₹ 195, US \$ 5.00



Engaging Sciences—Developing Minds!

## Handbook of Preventive Care in Obstetrics and Gynecology

Sangeeta Gupta



### Contents

♦ Basics of Prevention and Screening ♦ Preconception Counselling  
♦ Congenital Disorders of Pregnancy ♦ Anemia in Pregnancy  
♦ Diabetes Mellitus in Pregnancy ♦ Hypertension in Pregnancy  
♦ Preterm Labour ♦ Obstetric Hemorrhage ♦ Rh Isoimmunisation  
♦ Immunisation during Pregnancy ♦ Maternal Injuries during Child Birth  
♦ Cesarean Section—Rising Trends ♦ Maternal Mortality  
♦ Preventive Aspects in Adolescent Health ♦ Reproductive Tract Infections  
♦ Ovarian Hyperstimulation Syndrome ♦ Cervical Cancer  
♦ Human Papilloma Virus Vaccine ♦ Other Genital Tract Malignancies  
♦ Gestational Trophoblastic Neoplasia ♦ Preventive Aspects in Postmenopausal Health  
♦ Urinary Tract and Gastrointestinal Injuries during Obstetrical and Gynecological Surgery  
♦ Complications during Endoscopic Surgery ♦ Thromboprophylaxis in Obstetrics and Gynecology  
♦ Prevention of Medical Litigation.

Edn. 1st (2013); 208 pp; PB; 978-93-81714-35-5; ₹ 295, US \$ 7.60

## Immunology

Massoud Mahmoudi



### Contents

#### Part I: Basic Immunology

- ♦ The World of the Immune System
- ♦ Lymphocytes and Antigens
- ♦ Other Important Components of the Immune System

#### Part II: Clinical Immunology

- ♦ Hypersensitivity
- ♦ Autoimmunity
- ♦ Common Diagnostic Tests
- ♦ Immunodeficiency
- ♦ Vaccination
- ♦ Transplantation
- ♦ Tumor Immunology

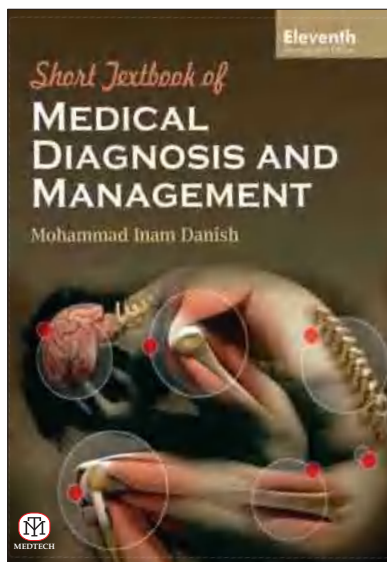
Edn. 1st (2013); 84 pp; PB; 978-93-81714-20-1; ₹ 275, US \$ 7.00





## Short Textbook of Medical Diagnosis and Management

Mohammad Inam Danish



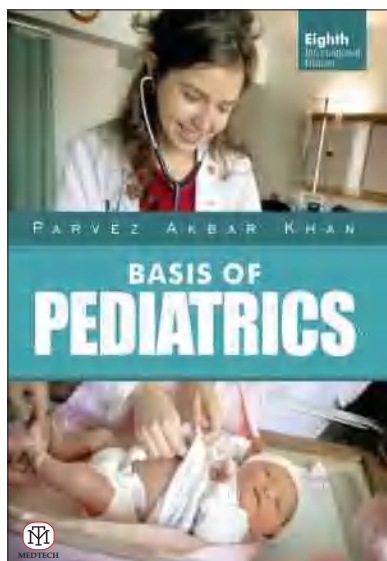
### Contents

- ♦ Cardiovascular Diseases
- ♦ Gastroenterology
- ♦ Liver and Biliary Diseases
- ♦ Respiratory Diseases
- ♦ Endocrine Diseases
- ♦ Renal Diseases
- ♦ Rheumatology and Bone Diseases
- ♦ Blood Disorders
- ♦ Neurological Disorders
- ♦ Infectious Diseases
- ♦ Poisoning
- ♦ Psychiatry
- ♦ Fluid and Electrolytes
- ♦ Pharmacology
- ♦ Prescriptions
- ♦ Secrets of Examination

Edn. 11th (2012); 796 pp; PB; 978-93-81714-01-0; ₹ 1295, US \$ 33.30

## Basis of Pediatrics (Best Seller)

Parvez Akbar Khan



### Contents

- ♦ History Taking and Physical Examination ♦ Growth and Development
- ♦ Immunization ♦ Social and Preventive Pediatrics ♦ Psychiatric Disorders ♦ Pediatric Nutrition and Nutritional Disorders ♦ Acutely Ill Child ♦ Neonatology ♦ Infectious Diseases ♦ Respiratory Disorders
- ♦ Gastrointestinal and Liver Disorders ♦ Cardiovascular Disorders
- ♦ Neurologic Disorders ♦ Neuromuscular Disorders ♦ Hematologic Disorders ♦ Neoplastic Diseases ♦ Immunologic Disorders ♦ Endocrine Disorders ♦ Metabolic Diseases ♦ Rheumatic Diseases ♦ Human Genetics ♦ Nephrology ♦ Dermatology ♦ Pediatric Surgery
- ♦ Poisoning ♦ Drug Dosages ♦ Reference Laboratory Values.

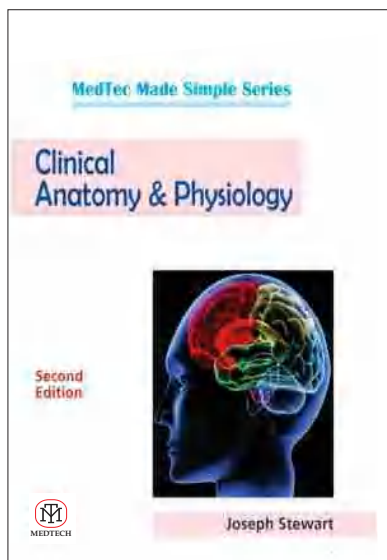
Edn. 8th (2013); 704 pp; PB; 978-93-81714-02-7; ₹ 795, US \$ 20.44



*Engaging Sciences—Developing Minds!*

## Clinical Anatomy & Physiology

Joseph V. Stewart, M.D.



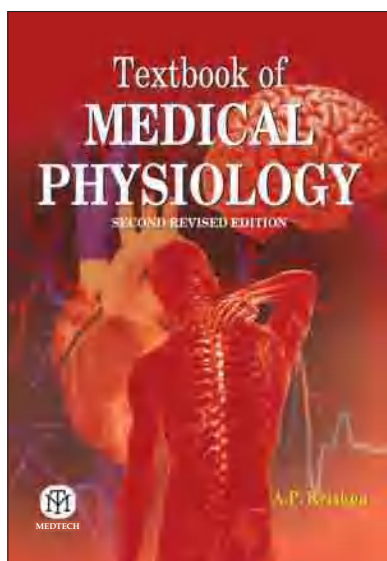
### Contents

- ◆ Organisation of the Body
- ◆ Basic Pathology and the Immune System
- ◆ The Skin
- ◆ The Skeletal System
- ◆ The Muscular System
- ◆ The Nervous System: Brain and Spinal Cord
- ◆ The Nervous System: Nerves
- ◆ The Eye and Ear
- ◆ The Cardiovascular System
- ◆ Blood, Electrolytes and Body Fluids
- ◆ The Respiratory System
- ◆ The Endocrine System
- ◆ The Digestive System
- ◆ The Excretory System
- ◆ The Reproductive System
- ◆ Regional Anatomy.

Edn. 2nd (2013); 272 pp; PB; 978-93-81714-24-9; ₹ 395, US \$ 10.15

## Textbook of Medical Physiology

A.P. Krishna



### Contents

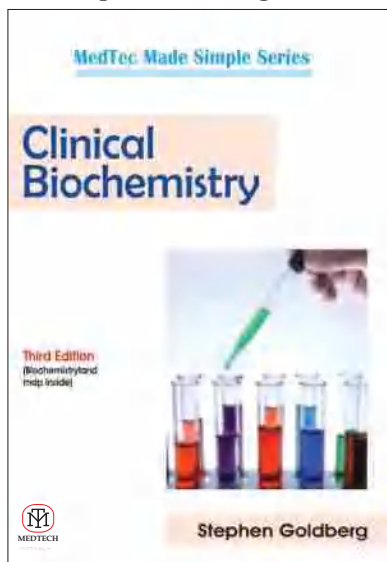
- ◆ Introduction and General Physiology
- ◆ Blood and Body Fluids
- ◆ Cardiovascular System
- ◆ Respiratory System
- ◆ Excretory System
- ◆ Digestive System
- ◆ Endocrine System
- ◆ Nervous System
- ◆ Special Senses
- ◆ Muscle Physiology and Exercise Physiology
- ◆ Reproductive System.

Edn. 2nd (2015); 480 pp; PB; 978-93-84007-32-4; ₹ 695, US \$ 17.90



## Clinical Biochemistry

Stephen Goldberg, M.D.



### Contents

- ◆ Overview of Biochemistryland
- ◆ The Main Powerhouse
- ◆ Carbohydrateland
- ◆ Lipidland
- ◆ The Amino Acid Midway
- ◆ Combo Circle
- ◆ The DNA Funhouse
- ◆ Porphy's Hemeland
- ◆ The Infirmary
- ◆ Clinical Review
- ◆ Beyond Biochemistryland
- ◆ Appendices
- ◆ Structural Index
- ◆ Glossary
- ◆ Index

Edn. 3rd (2013); 104 pp; PB; 978-93-81714-16-4; ₹ 295, US \$ 7.58

## Medical Histology

Laiq Hussain Siddiqui



### Contents

- ◆ Introduction
- ◆ The Cell
- ◆ Epithelium
- ◆ Glands
- ◆ Connective Tissue
- ◆ Connective Tissue Proper
- ◆ Cartilage
- ◆ Bone
- ◆ Blood
- ◆ Muscular Tissue
- ◆ Nervous Tissue
- ◆ Cerebrum, Cerebellum and Spinal Cord
- ◆ Circulatory System
- ◆ Immune System and Lymphoid Organs
- ◆ Integumentary System
- ◆ Endocrine System
- ◆ Respiratory System
- ◆ Digestive System
- ◆ Urinary System
- ◆ Male Reproductive System
- ◆ Female Reproductive System
- ◆ Eye
- ◆ Ear
- ◆ Index.

Edn. 5th (2012); 322 pp; PB; 978-93-81714-11-9; ₹ 595, US \$ 15.30



Engaging Sciences—Developing Minds!

## Clinical Pathophysiology (Best Seller)

Aaron Berkowitz



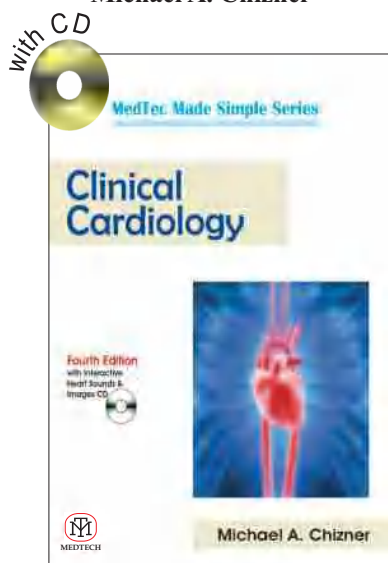
### Contents

- ◆ The Cardiovascular System
- ◆ The Pulmonary System
- ◆ The Renal System
- ◆ The Gastrointestinal System
- ◆ The Endocrine System
- ◆ The Hematologic System
- ◆ The Nervous System
- ◆ Rheumatology
- ◆ Male and Female Reproductive Systems
- ◆ Clinical Cases
- ◆ Index
- ◆ Differential Diagnosis CD (MAC/WIN)

Edn. 1st (2013); 195 pp; PB; 978-93-81714-18-8; ₹ 350, US \$ 9.00

## Clinical Cardiology

Michael A. Chizner



### Contents

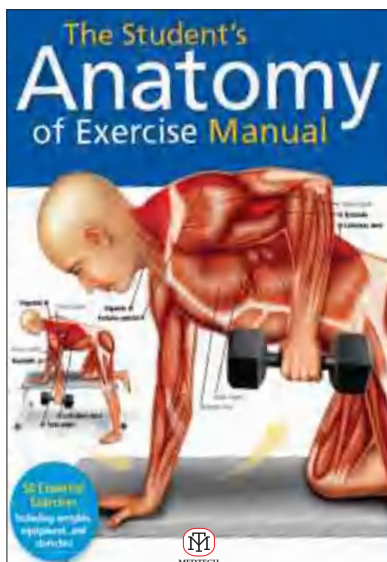
- ◆ Cardiac History ◆ Cardiac Physical Exam ◆ Electrocardiogram
- ◆ Chest X-ray ◆ Cardiac Diagnostic Laboratory Tests ◆ General Considerations in Cardiovascular Therapy ◆ Cardiac Drugs ◆ Cardiac Nonpharmacologic and Interventional Techniques ◆ Cardiac Device Therapy ◆ Cardiac Surgery ◆ Approach to the Patient with Coronary Artery Disease ◆ Approach to the Patient with Heart Failure ◆ Approach to the Patient with Systemic Arterial Hypertension ◆ Approach to the Patient with Dyslipidemia ◆ Approach to the Patient with Valvular Heart Disease ◆ Approach to the Patient with Hypertrophic Cardiomyopathy ◆ Approach to the Patient with Infective Endocarditis ◆ Approach to the Patient with Aortic and Peripheral Arterial Disease ◆ Approach to the Patient with Pericardial Disease ◆ Approach to the Patient with Pulmonary Hypertension ◆ Approach to the Patient with a Heart Murmur ◆ Approach to the Patient with Cardiac Arrhythmias and Conduction Disturbances

Edn. 4th (2013); 376 pp; PB; 978-93-81714-22-5; ₹ 495, US \$ 12.73



## The Student's Anatomy of Exercise Manual (Best Seller)

Ken Ashwell



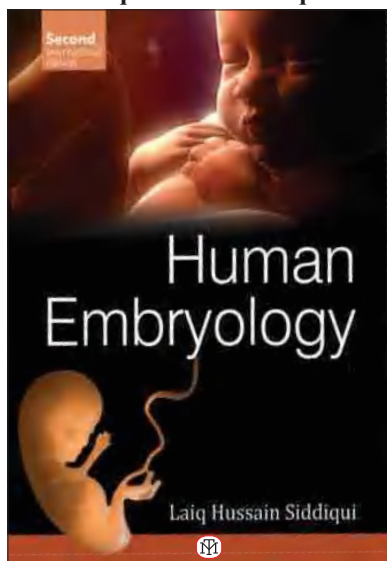
### Contents

- ◆ Body Regions
- ◆ Muscular System
- ◆ Skeletal System
- ◆ Nervous System
- ◆ Circulatory System
- ◆ Respiratory System
- ◆ Movements of the Body
- ◆ Chest Exercises
- ◆ Back Exercises
- ◆ Arm and Shoulder Exercises
- ◆ Leg and Buttock Exercises
- ◆ Trunk Exercises

Edn. 1st (2012); 192 pp; PB; 978-93-81714-12-6; ₹995, US \$ 25.60

## Human Embryology (Best Seller)

Laiq Hussain Siddiqui



### Contents

#### Section 1 : General Embryology

- ◆ Introduction ◆ Basic Genetics
- ◆ Molecular Basis of Embryonic Development
- ◆ Male and Female Reproductive Systems ◆ Gemetogenesis
- ◆ Discharge and Union of Gametes ◆ First Week of Development
- ◆ Second Week of Development
- ◆ Third Week of Development ◆ Fourth Week of Development
- ◆ Fifth to Eighth Weeks of Development ◆ The Fetal Period
- ◆ Decidua, Fetal Membranes and Placenta ◆ Congenital Anomalies

#### Section 2: Special Embryology

- ◆ Skeletal and Articular ◆ Muscular System ◆ The Limbs
- ◆ Body Cavities, Mesenteries and Diaphragm
- ◆ Integumentary System ◆ Respiratory System
- ◆ Digestive System ◆ Cardiovascular System
- ◆ Urogenital System ◆ Head and Neck
- ◆ Nervous System ◆ Eye
- ◆ Ear ◆ Index

Edn. 2nd (2012); 348 pp; PB; 978-93-81714-03-4; ₹ 695, US \$ 17.90

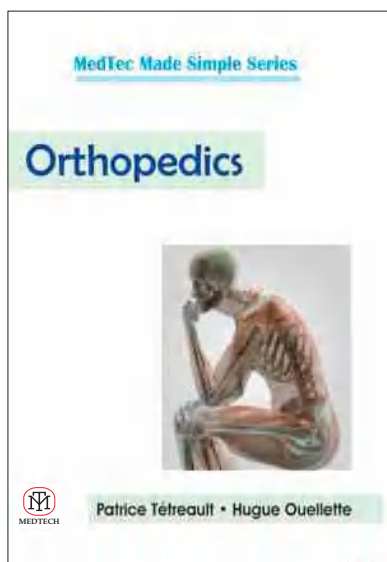




*Engaging Sciences—Developing Minds!*

## Orthopedics

**Patrice Tétreault**



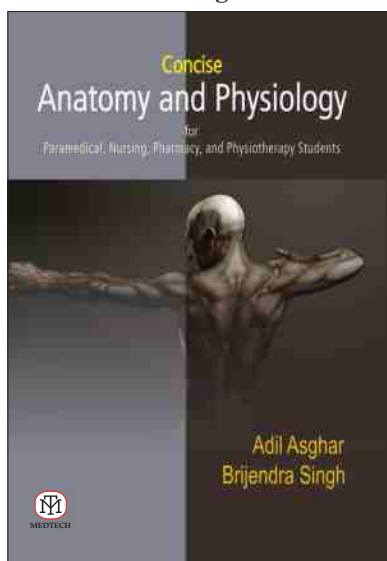
### Contents

- ◆ Musculoskeletal Basics
- ◆ Upper Limb
- ◆ Lower Limb
- ◆ Axial Skeleton
- ◆ Systemic Conditions
- ◆ Pediatric Orthopedics

Edn. 1st (2013); 102 pp; PB; 978-93-81714-23-2; ₹ 295, US \$ 7.50

## Concise Anatomy and Physiology

**Adil Asghar**



### Contents

- ◆ Introduction
- ◆ Level of Organisation and Micro-Anatomy
- ◆ Integumentary System
- ◆ Musculoskeletal System
- ◆ Nervous System and Special Senses
- ◆ Endocrine System
- ◆ Cardiovascular System
- ◆ Respiratory System
- ◆ Gastrointestinal System
- ◆ Urinary System
- ◆ Reproductive System
- ◆ Developmental Anatomy
- ◆ Basic of Radiological Anatomy
- ◆ Surface and Bony Landmarks
- ◆ Genetics
- ◆ References
- ◆ Index.

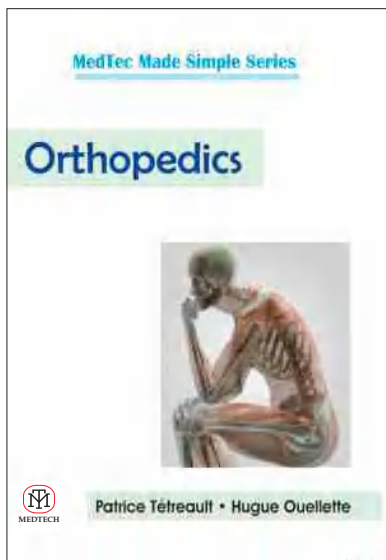
Edn. 1st (2014); 404 pp; PB; 978-93-81714-71-3; ₹ 375, US \$ 9.00



## Nursing Science

### Orthopedics

Patrice Tétreault



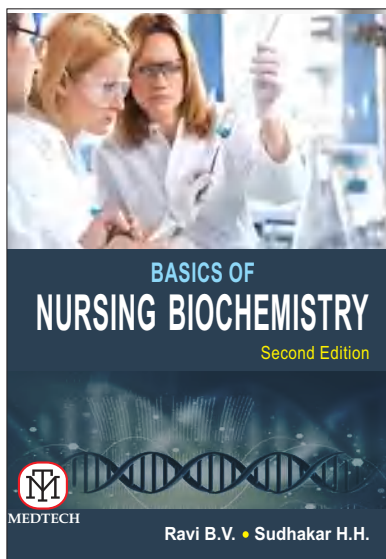
#### Contents

- ◆ Musculoskeletal Basics
- ◆ Upper Limb
- ◆ Lower Limb
- ◆ Axial Skeleton
- ◆ Systemic Conditions
- ◆ Pediatric Orthopedics.

Edn. 1st (2013); 102 pp; PB; 978-93-81714-23-2; ₹ 295, US \$ 7.60

### Basics of Nursing Biochemistry

Ravi B.V., Sudhakar H.H.



#### Contents

- ◆ Cell
- ◆ Carbohydrates
- ◆ Proteins
- ◆ Lipids
- ◆ Enzymes
- ◆ Vitamins
- ◆ Elements of Nutrition
- ◆ Mineral Metabolism
- ◆ Acid Base Balance
- ◆ LFT, RFT, Nucleic Acid, Haem
- ◆ Urine
- ◆ Immunity.

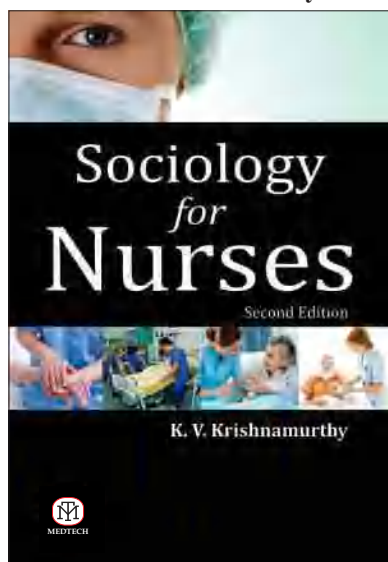
Edn. 2nd(2014); 216 pp; PB; 978-93-81714-66-9; ₹ 225, US \$ 5.80



*Engaging Sciences—Developing Minds!*

## Sociology for Nurses

K.V. Krishnamurthy



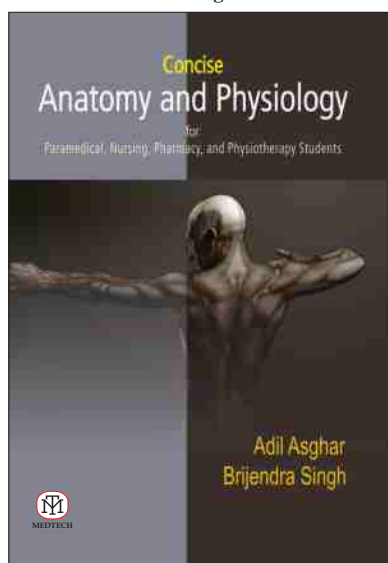
### Contents

- ◆ Introduction
- ◆ Individual and Society
- ◆ Culture
- ◆ Social Groups
- ◆ Population and Society
- ◆ The Family and Marriage
- ◆ Social Stratification
- ◆ Types of Community of India
- ◆ Social Change
- ◆ Social Organisation and Social System
- ◆ Social Control
- ◆ Social Problems
- ◆ Economy
- ◆ Previous Years Examination Papers

Edn. 2nd (2015); 264 pp; PB; 978-93-84007-16-4; ₹ 295, US \$ 7.60

## Concise Anatomy and Physiology (Best Seller)

Adil Asghar



### Contents

- ◆ Introduction
- ◆ Level of Organisation and Micro-Anatomy
- ◆ Integumentary System
- ◆ Musculoskeletal System
- ◆ Nervous System and Special Senses
- ◆ Endocrine System
- ◆ Cardiovascular System
- ◆ Respiratory System
- ◆ Gastrointestinal System
- ◆ Urinary System
- ◆ Reproductive System
- ◆ Developmental Anatomy
- ◆ Basic of Radiological Anatomy
- ◆ Surface and Bony Landmarks
- ◆ Genetics
- ◆ References
- ◆ Index

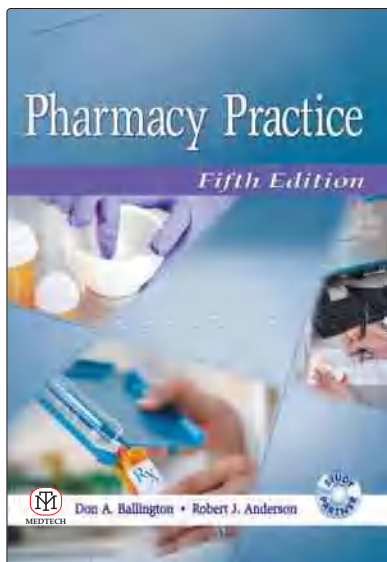
Edn. 1st (2014); 404 pp; PB; 978-93-81714-71-3; ₹ 375, US \$ 9.00



## Pharmaceutical Sciences

### Pharmacy Practice

Don A. Ballington



#### Contents

- ♦ The Profession of Pharmacy
- ♦ Pharmacy Law, Regulations, and Standards
- ♦ Drug Development
- ♦ Routes of Drug
- ♦ Administration and Dosage Formulations
- ♦ Pharmaceutical Measurements and Calculations
- ♦ Dispensing Medications in the Community Pharmacy
- ♦ The Business of Community Pharmacy
- ♦ Nonsterile Pharmaceutical Compounding
- ♦ Hospital Pharmacy Practice ♦ Infection Control
- ♦ Compounding Sterile Products and Hazardous Drugs
- ♦ Medication Safety
- ♦ Human Relations and Communications
- ♦ Your Future in Pharmacy Practice
- ♦ Appendix A: Most Commonly Prescribed Drugs
- ♦ Appendix B: Top Drugs Administered in Hospitals
- ♦ Appendix C: Common Pharmacy Abbreviations and Acronyms

Edn. 5th (2014); 672 pp; PB; 978-93-81714-80-5; ₹ 1095, US \$ 28.15

### Essentials of Pharmacology

Jennifer Danielson



#### Contents

- ♦ Studying Pharmacology ♦ Drugs in the Body ♦ The Immune System and Drugs for Infectious Diseases ♦ Immunologic Drugs and Vaccines
- ♦ The Skin and Dermatologic Drug Therapy ♦ The Skeletal System and Drug Therapy ♦ Drugs for the Nervous, Muscular, and Sensory Systems
- ♦ The Nervous System and Drug Therapy ♦ Drugs for Psychiatric and Mood Disorders ♦ Drugs for Pain, Headache, and Anesthesia ♦ The Muscular System and Drug Therapy ♦ Drugs for Eyes, Ears, Nose, and Throat
- ♦ The Cardiovascular System and Drug Therapy ♦ The Blood and Drug Therapy ♦ The Respiratory System and Drug Therapy ♦ Drugs for the Digestive and Endocrine Systems ♦ The Gastrointestinal System and Drug Therapy ♦ Nutrition and Drugs for Metabolism ♦ The Endocrine System and Drug Therapy ♦ Drugs for the Genitourinary System ♦ The Reproductive System and Drug Therapy ♦ The Renal System and Drug Therapy ♦ Drugs for Specialized Therapies ♦ Fluids and Electrolytes ♦ Cancer and Chemotherapy

Edn. 1st (2014); 432 pp; PB; 978-93-81714-77-5; ₹ 995, US \$ 25.60

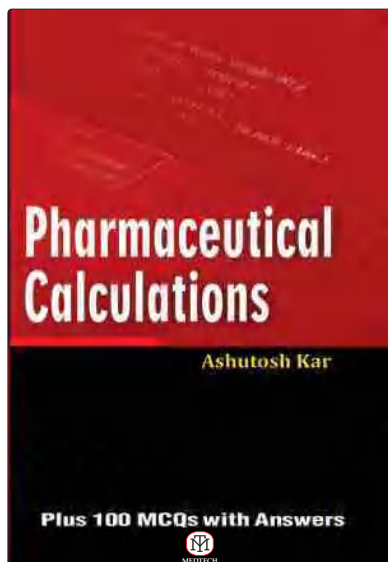


Engaging Sciences—Developing Minds!



## Pharmaceutical Calculations

Ashutosh Kar



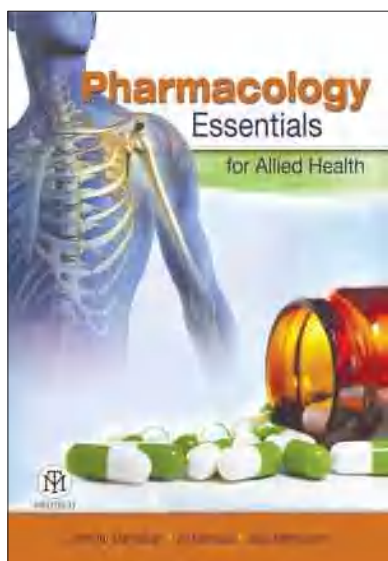
### Contents

- ◆ Fundamentals of Measurement and Pharmaceutical Calculations
- ◆ International System of Units ◆ Prescription and Medication Orders
- ◆ Density, Specific Gravity, and Specific Volume ◆ Percentage Strengths ◆ Generalised Considerations ◆ Patient conditionalities
- ◆ Some Specific Calculations Involving Isotonicity, pH, and Buffers and Radioisotopes ◆ Electrolyte Solutions ◆ Equivalents and Milliequivalents ◆ Millimols and Micromols Osmols, Millisomols and Osmolarity ◆ IV-Infusions, Parenteral Admixtures, and Rate of Flow of IV-Fluids ◆ Use of Alligation Method: Changing Product Strength, Usage of Stock Solutions, and Solution of Some Problems ◆ Enteral and Parenteral Nutrition, Body Mass Index and Food Nutrition Label
- ◆ Reducing and Enlarging Formulae ◆ Some Specific Calculations in Contemporary Compounding ◆ Calculation Involving Active Drug Moiety ◆ Certain Selected Calculations Related to Plant Extractives
- ◆ Bioavailability and Pharmacokinetic Calculations

Edn. 1st (2014); 428 pp; PB; 978-93-81714-57-7; ₹ 495, US \$ 12.75

## Pharmacology Essentials for Allied Health

Jennifer Danielson



### Contents

- ◆ **Course Navigator:** Units that take a logical, stepped approach to Learning—from foundational concepts of pharmacology through practice, then proceeding through the body systems, and concluding by learning about pharmacology for special patient populations.
- ◆ Career awareness of allied health positions related to the chapters.
- ◆ Varied assessment opportunities with several types of objective-based and performance-based assessments.
- ◆ Individualized learning approach. Students determine their learning styles through Kolb's LSI and related chapter activities.
- ◆ Soft skills integrated throughout!

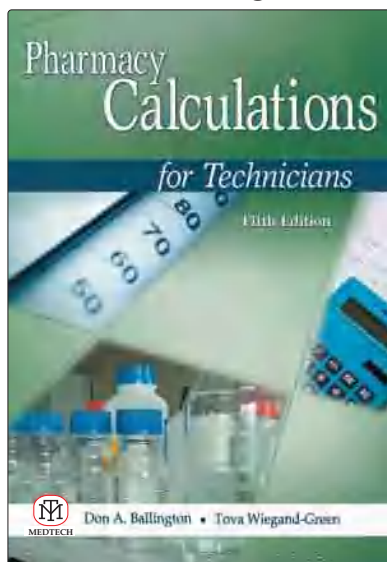
Edn. 1st (2016); PB; 978-93-84007-75-1; ₹ TBA





## Pharmacy Calculations *for Technicians*

Don A. Ballington



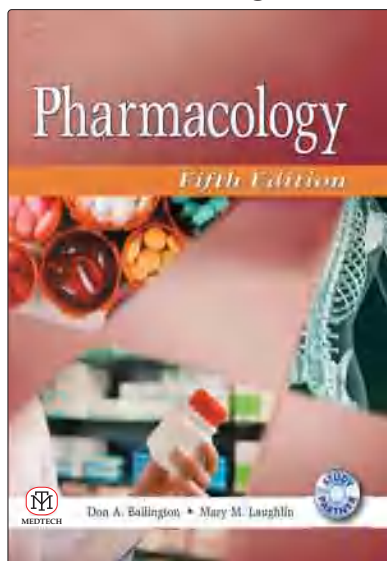
### Contents

- ◆ Understanding Subdivisions of Numbers, Number Systems, Estimating, and Accuracy
- ◆ Using Ratios, Percents, and Proportions
- ◆ Developing Literacy Skills
- ◆ Applying Metric Measurements and Calculating Doses
- ◆ Using Household Measure in Pharmacy Calculations
- ◆ Preparing Injectable Medications
- ◆ Preparing Intravenous Medications
- ◆ Using Special Calculations in Compounding
- ◆ Using Business Math in the Pharmacy
- ◆ Understanding the Apothecary System
- ◆ Appendix A: Answers to Problem Sets
- ◆ Appendix B: Additional Practice with Fractions and Percents
- ◆ Appendix C: Additional Practice with Compounding
- ◆ Appendix D: Measures and Conversions

Edn. 5th (2015); 392 pp; PB; 978-93-81714-97-3; ₹ 1095, US \$ 28.15

## Pharmacology

Don A. Ballington



### Contents

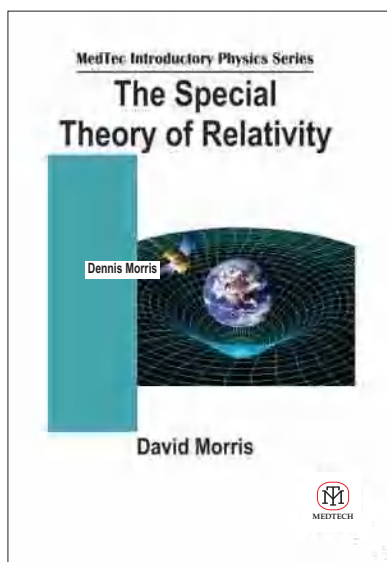
- ◆ Evolution of Medicinal Drugs
- ◆ Basic Concepts of Pharmacology
- ◆ Dispensing Medications ◆ Antibiotics
- ◆ Therapy for Fungal and Viral Infections
- ◆ Anesthetics and Narcotics
- ◆ Psychiatric and Related Drugs
- ◆ Drugs for Central Nervous System Disorders
- ◆ Respiratory Drugs
- ◆ Drugs for Gastrointestinal and Related Diseases
- ◆ Renal System Drugs
- ◆ Drugs for Cardiovascular Diseases
- ◆ Drugs for Muscle and Joint Disease and Pain
- ◆ Hormonal Disorders and Their Treatment
- ◆ Topical, Ophthalmic, and Otic Medications
- ◆ Chemotherapy and Miscellaneous ◆ Pharmaceutical Products
- ◆ Recombinant Drugs and Chemotherapy
- ◆ Vitamins, OTC Supplements, Antidotes

Edn. 5th (2015); 704 pp; PB; 978-93-81714-79-9; ₹ 1095, US \$ 28.15

## Physics

### The Special Theory of Relativity

Dennis Morris



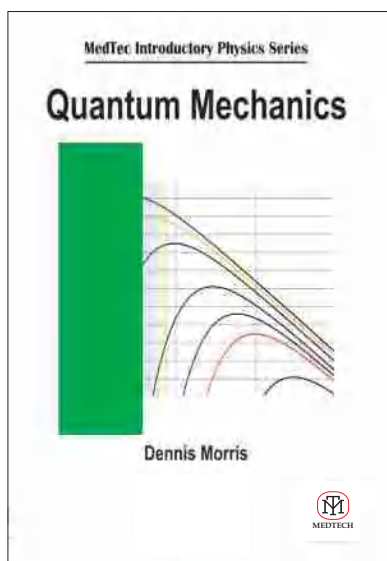
#### Contents

◆ Introduction ◆ An Overview of the Theory of Special Relativity  
◆ The Results of Special Relativity without Detailed Explanation  
◆ Special Relativity in Physics ◆ The Nature of Space ◆ Physical Constants ◆ Numbers ◆ Comments on Matrices ◆ Introduction to Finite Groups ◆ Trigonometric Functions ◆ Introduction to Vectors ◆ The Nature of Velocity ◆ Simultaneity ◆ The Lorentz Transformation ◆ Velocity and Acceleration ◆ Transformations ◆ The Nature of Straight Lines and the Twin Paradox ◆ 4-vectors ◆ 4-momentum and Relativistic Mass ◆ Doing it with Matrices ◆ Electromagnetism ◆ The Space in Which We Sit ◆ Electromagnetism With Quaternions ◆ 4-dimensional Space-time and The Lorentz Group ◆ The Expanding Universe and the Cosmic Background Radiation ◆ Concluding Remarks.

End. 1st (2015); 328 pp; PB; 978-93-84007-43-0; ₹ 295, US \$ 7.60

### Quantum Mechanics

Dennis Morris



#### Contents

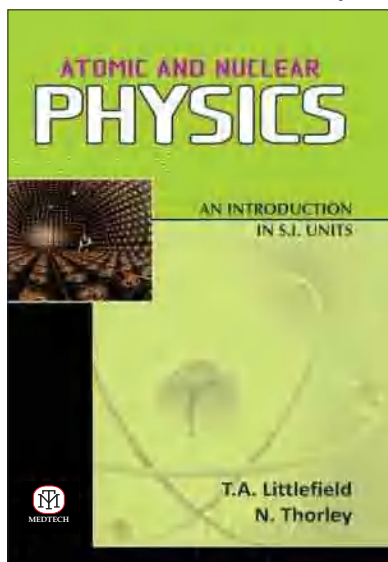
◆ Introduction ◆ The place of quantum mechanics in modern physics  
◆ The dynamic variables in quantum mechanics ◆ Wave particle duality, superposition, and Non-locality ◆ Complex numbers, wave equations, and the momentum operator ◆ An end to determinism ◆ The Newtonian wave equation ◆ Linear spaces and inner products ◆ Operators, eigen functions, and eigen values ◆ The place of operators in quantum mechanics ◆ Commutation relations in quantum mechanics ◆ Angular momentum and the position operators: ◆ A note on entanglement ◆ Expectation value and standard deviation ◆ Probability ◆ The history of quantum mechanics ◆ Quantum mechanics – An overview ◆ Basic formulae ◆ De Broglie waves lead to the momentum operator ◆ The Hamiltonian and Schrödinger's equation ◆ Boundary conditions on eigen functions ◆ Wave mechanics — the Schrödinger equation ◆ Solving the TISE in several potentials ◆ The free particle solution of the tise ◆ The infinite square well solution of the TDSE ◆ The step potential ◆ The 3-dimensional box and degeneracy.

Edn. 1st (2015); 424 pp; PB; 978-93-84007-44-7; ₹ 295, US \$ 7.60



## Atomic and Nuclear Physics

T.A. Littlefield, N. Thorley



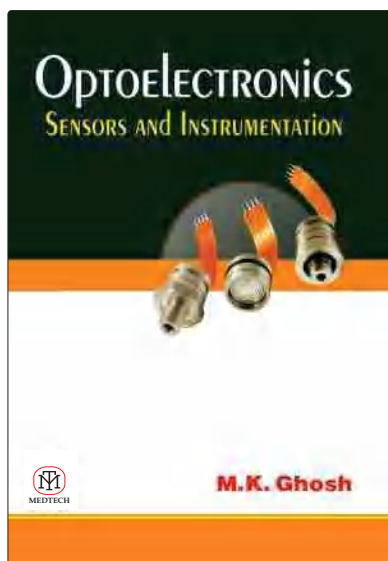
### Contents

- ♦ Kinetic Theory
- ♦ The Electron
- ♦ Natural Radioactivity
- ♦ Radioactive Series and Isotopes
- ♦ The Electromagnetic Spectrum
- ♦ Quantum Theory ♦ Spectra
- ♦ Fine Structure and Electron Spin
- ♦ Magnetic Effects ♦ Pauli's Principle
- ♦ Waves and Particles ♦ Wave Mechanics
- ♦ The Atomic Theory of Magnetism
- ♦ The Structure of the Nucleus
- ♦ Properties and Uses of Natural Radioactivity
- ♦ Nuclear Bombarding Experiments
- ♦ The Measurement and Detection of Charged Particles
- ♦ Accelerating Machines as used in Nuclear Physics
- ♦ Nuclear Models ♦ Artificial Radioactivity
- ♦ Neutron Physics ♦ Nuclear Fission and its Implications

Edn. 1st (2014); 484 pp; PB; 978-93-81714-60-7; ₹ 325, US \$ 8.35

## Optoelectronics—Sensors and Instrumentation

M.K. Ghosh



### Contents

- ♦ Introduction to Optoelectronics ♦ Generation and Propagation of Light: Wave Theory ♦ Radiometry and Photometry ♦ Optical Phenomena and Effects ♦ Optical Sources ♦ Optical Detectors ♦ Optical Fibre ♦ Optical Components ♦ Optical Signal Processing Techniques ♦ Optical Multiplexing and De-Multiplexing ♦ Special Techniques, Components and Equipment ♦ Optical Imaging ♦ Optical Holography ♦ Optical Spectroscopy ♦ Digital Imaging Technique in Optical Instrumentation ♦ Sensing without Optical Waveguides: Air Path Sensing ♦ Basics of Fibre Optic Sensors ♦ Intensity Modulated Fibre Optic Sensors ♦ Phase Modulated Fibre Optic Sensors ♦ Wavelength or Colour Modulated Fibre Optic Sensors ♦ Frequency Modulated Fibre Optic Sensors ♦ Polarization Modulated Fibre Optic Sensors ♦ Scattering Modulated Fibre Optic Sensors ♦ Evanescent Field Modulated Fibre Optic Sensors ♦ Integrated Optics-based Sensing ♦ Optical Communication and Other Applications ♦ Appendices.

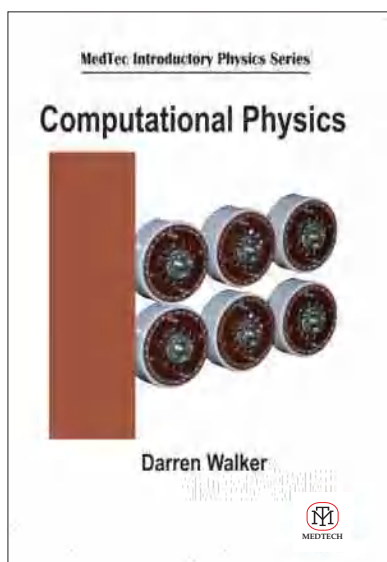
Edn. 1st (2014); 460 pp; PB; 978-93-81714-58-4; ₹ 395, US \$ 10.15



*Engaging Sciences—Developing Minds!*

## Computational Physics

**Darren Walker**



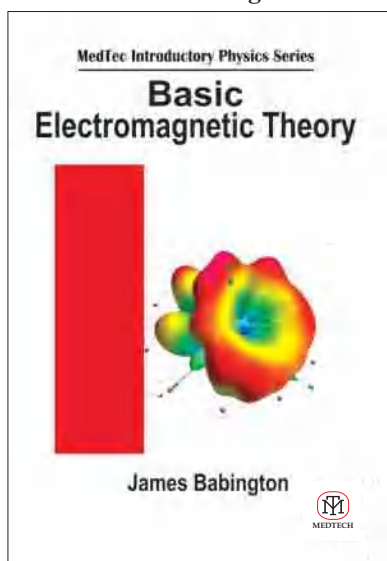
### Contents

- ◆ Introduction
- ◆ Getting Comfortable
- ◆ Interpolation and Data fitting
- ◆ Searching for Roots
- ◆ Numerical Quadrature
- ◆ Ordinary Differential Equations
- ◆ Fourier Analysis
- ◆ Monte Carlo Methods
- ◆ Partial Differential Equation
- ◆ Advanced Numerical Quadrature
- ◆ Advanced ODE Solver and Applications
- ◆ High Performance Computing
- ◆ Appendix

Edn. 1st (2015); 384 pp; PB; 978-93-84007-41-6; ₹ 295, US \$ 7.60

## Basic Electromagnetic Theory

**James Babington**



### Contents

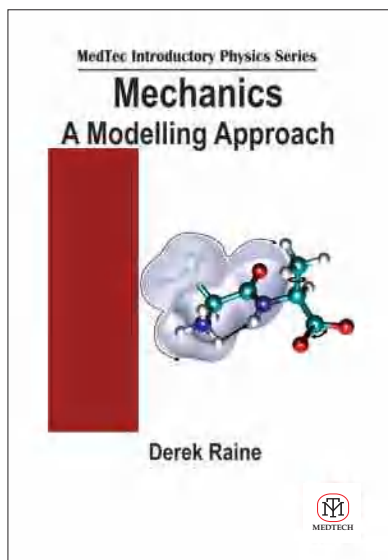
- ◆ Introduction
- ◆ Mathematical Topics
- ◆ Maxwell's Equations Part I
- ◆ Maxwell's Equations Part II
- ◆ Physical Degrees of Freedom
- ◆ Physical Observables
- ◆ Macroscopic matter
- ◆ Conclusions and Omissions
- ◆ Problems and Solutions

Edn. 1st (2015); 200 pp; PB; 978-93-84007-42-3; ₹ 295, US \$ 7.60



## Mechanics— A Modelling Approach

Derek Raine



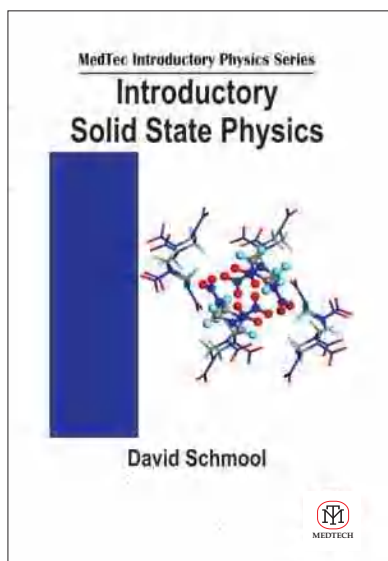
### Contents

- ♦ Mechanical Models
- ♦ Forces
- ♦ Kinematics
- ♦ Energy
- ♦ Motion
- ♦ Momentum
- ♦ Orbital motion
- ♦ Oscillations
- ♦ Rigid bodies
- ♦ Stability of motion
- ♦ Lagrangian and Hamiltonian mechanics

Edn. 1st (2015); 304 pp; PB; 978-93-84007-39-3; ₹ 295, US \$ 7.60

## Introductory Solid State Physics

David Schmool



### Contents

- ♦ Introduction to Solid State Physics
- ♦ Crystallinity in Solids
- ♦ Crystal Structure Determination
- ♦ Imperfections in Crystalline Order
- ♦ Lattice Vibrations
- ♦ Free Electrons in Metals
- ♦ Band Theories of Solids
- ♦ Electron Dynamics and Transport Phenomena
- ♦ Semiconductors
- ♦ Magnetic Materials and Phenomena
- ♦ Superconductivity
- ♦ Dielectric Materials
- ♦ Nanotechnologies and Nanophysics
- ♦ Appendices

Edn. 1st (2015); 648 pp; PB; 978-93-84007-40-9; ₹ 395, US \$ 10.15

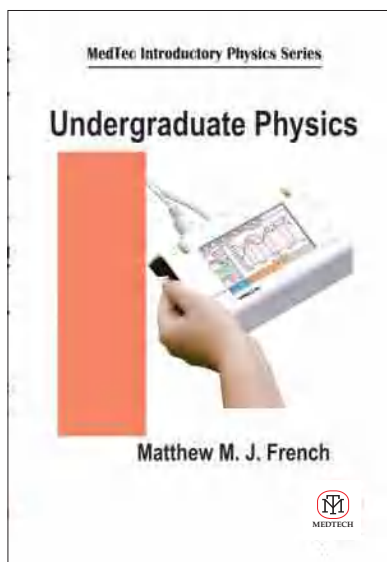




*Engaging Sciences—Developing Minds!*

## Undergraduate Physics

**Matthew M. J. French**



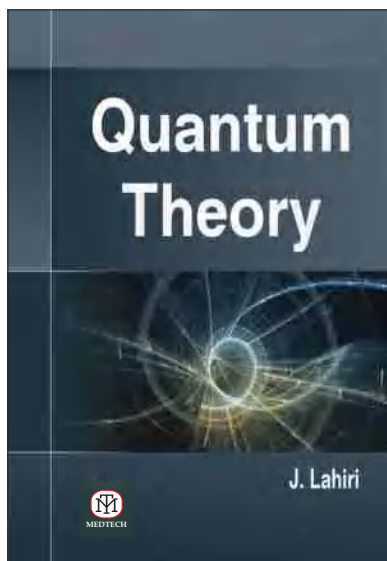
### Contents

- ◆ Introduction
- ◆ Safety
- ◆ Making Measurements
- ◆ Data Analysis and Errors
- ◆ Presenting Results
- ◆ Common Experiments

1st (2015); 304 pp; PB; 978-93-84007-45-4; ₹ 295, US \$ 7.60

## Quantum Theory

**J. Lahiri**



### Contents

- ◆ Where is the Problem?
- ◆ Experiment and Quantum Measurement Theory
- ◆ A Consistent Interpretation of Quantum Mechanics
- ◆ The Measurement Process in the Individual Interpretation of Quantum Mechanics
- ◆ Principle of Stationarity in the Action Functional and the Theory of Measurement
- ◆ Quantum (Statistical) Mechanics, Measurement and Information
- ◆ State Vector Collapse as a Classical Statistical Effect of Measurement
- ◆ Consecutive Quantum Measurement
- ◆ No-collapse Versions of Quantum Mechanics
- ◆ An Attempt to Understand the Many-worlds Interpretation of Quantum Theory
- ◆ Uncertainty and Measurement

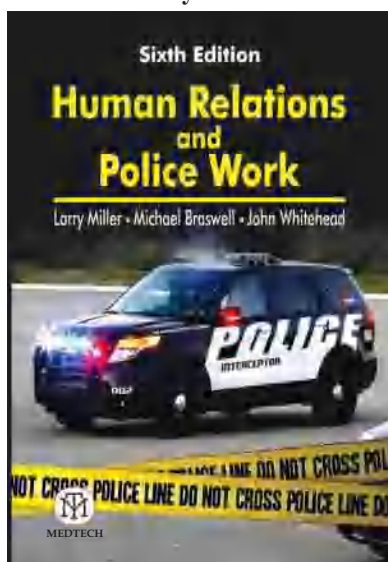
Edn. 1st (2016); 178 pp; PB; 978-93-84007-96-6; ₹ 295, US \$ 7.60



## Psychology & Sociology

### Human Relations and Police Work

Larry Miller



#### Contents

- ◆ Police and the Community
- ◆ Family and Crisis Intervention
- ◆ The Police and Juveniles
- ◆ The Police and the Emotionally Distressed
- ◆ Police Stress
- ◆ Police Ethics
- ◆ Police Administration and Supervision

Edn. 6th (2015); 256 pp; PB; 978-93-84007-23-2; ₹ 395, US \$ 10.15

### Business Anthropology

Ann. T. Jordan



#### Contents

- ◆ The Anthropological Approach
- ◆ A History of Anthropology in Western Organizational Life
- ◆ Techniques for Conducting Fieldwork for Business Organizations
- ◆ Seeing Cultural Groupings
- ◆ Ethical Concerns
- ◆ Marketing and Consumer Behavior
- ◆ Design Anthropology
- ◆ Organizational Anthropology
- ◆ Understanding Issues of Globalization
- ◆ The Importance of Holism
- ◆ Where Do We Go from Here?

Edn. 2nd (2015); 160 pp; PB; 978-93-84007-21-8; ₹ 295, US \$ 7.60

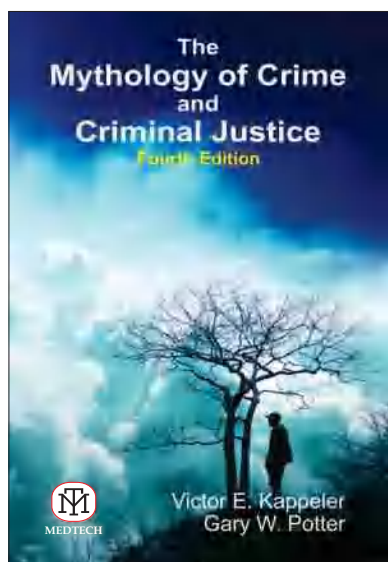


*Engaging Sciences—Developing Minds!*



## The Mythology of Crime and Criminal Justice

Victor E. Kappeler



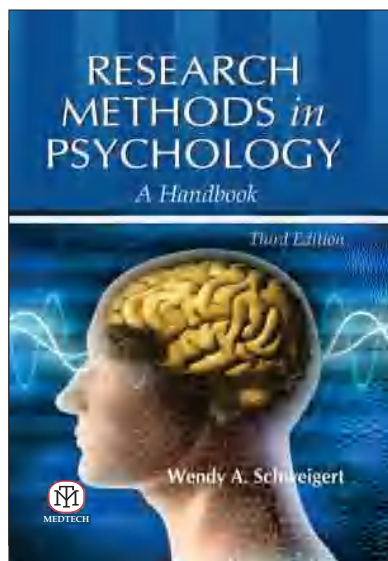
### Contents

- ◆ The Social Construction of Crime Myths
- ◆ Crime Waves, Fears, and Social Reality
- ◆ The Myth and Fear of Missing Children
- ◆ Myth and Murder: The Serial Killer Panic
- ◆ Of Stalkers and Murder: Spreading Myth to Common Crime
- ◆ Organized Crime: The Myth of an Underworld Empire
- ◆ Corporate Crime and “Higher Immorality”
- ◆ Apocalypse Now: The Lost War on Drugs
- ◆ Juvenile Superpredators: The Myths of Killer Kids, Dangerous Schools, and a Youth Crime Wave
- ◆ Battered and Blue Crime Fighters: Myths and Misconceptions of Police Work
- ◆ Order in the Courts: The Myth of Equal Justice
- ◆ Cons and Country Clubs: The Mythical Utility of Punishment
- ◆ The Myth of a Lenient Criminal Justice System
- ◆ Capital Punishment: The Myth of Murder as Effective Crime Control
- ◆ Merging Myths and Misconceptions of Crime and Justice

Edn. 4th (2015); 440 pp; PB; 978-93-84007-20-1; ₹ 495, US \$ 12.73

## Research Methods in Psychology—A Handbook

Wendy A. Schweigert



### Contents

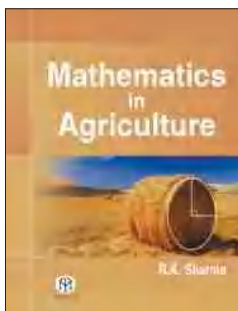
- ◆ Introduction to the Scientific Method
- ◆ Ethics in Research
- ◆ The Research Process
- ◆ Research Reports and Literature Searches
- ◆ The Role of Statistics in Research
- ◆ Introduction to Experimentation and the Between-Groups Design
- ◆ The Within-Subjects Design
- ◆ Quasi-Experimental Designs
- ◆ Factorial Designs and Correlational Studies
- ◆ Using Natural Settings: Observational Studies and Field Experiments
- ◆ Surveys and Interviews
- ◆ Single-Subject Designs
- ◆ Physical Trace and Archival Data Studies: Two Nonreactive Measurement Techniques

Edn. 3rd (2013); 368 pp; PB; 978-93-84007-22-5; ₹ 495, US \$ 12.73

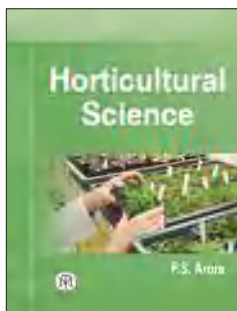


## MedTech Forthcoming Titles

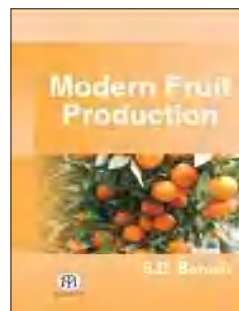
### Agricultural Sciences



**R.K. Sharma**



**P.S. Arora**



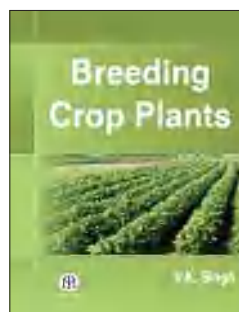
**S.D. Baruah**



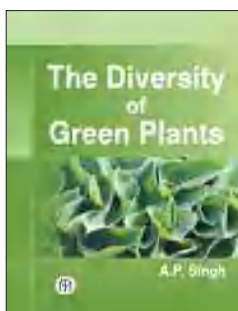
**V.K. Singh**



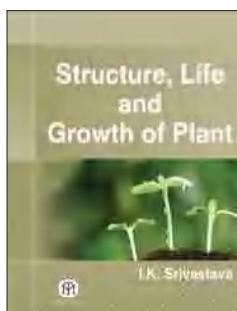
**P.K. Das**



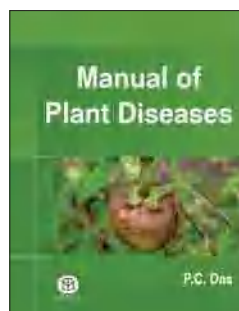
**V.K. Singh**



**A.P. Singh**



**I.K. Srivastava**



**P.C. Das**



*Engaging Sciences—Developing Minds!*



## Biological Sciences



**B.S. Aggarwal**

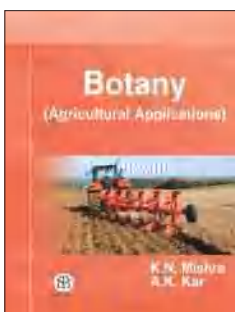


**B. Roy**



**I. K. Sethi  
S. K. Walia**

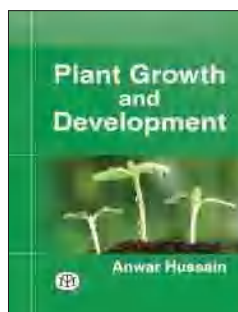
## Botany



**K.N. Mishra**



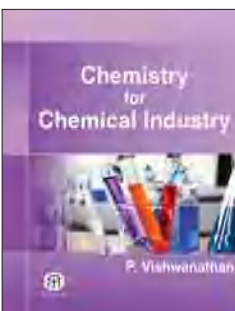
**Namita Chandra**



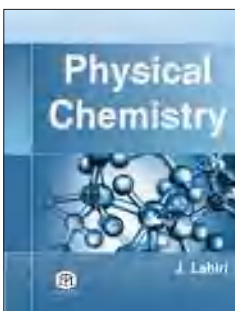
**Anwar Hussain**

## Chemical Engineering

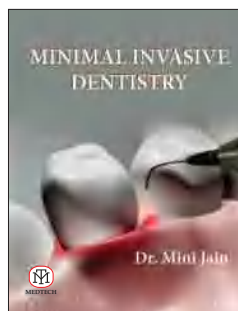
## Chemistry



**P. Vishwanathan**



**J. Lahiri**



**Mini Jain**

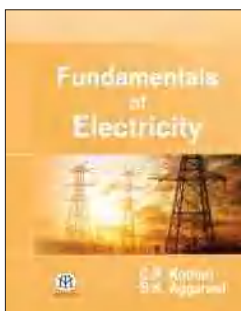
## Dentistry



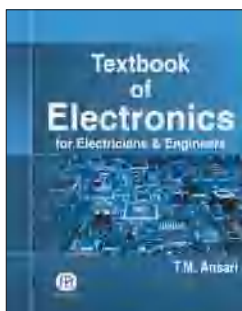


*Engaging Sciences—Developing Minds!*

## Electrical Engineering



**C.R. Kothari**

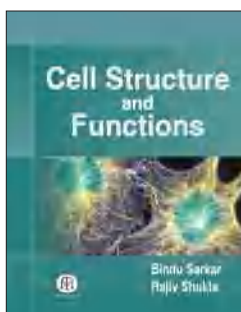


**T.M. Ansari**

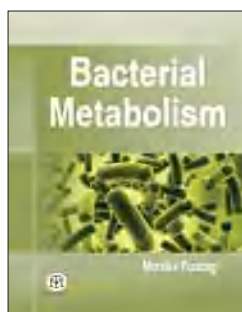


**V.K. Vasudevan**

## Food Science



**Bindu Sarkar**



**Monika Rustagi**

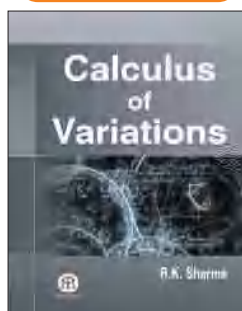


**Sudhanshu Dey**

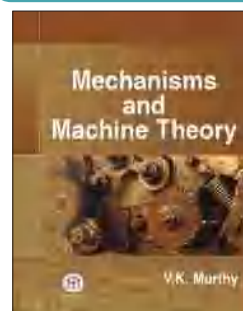
## Life Sciences



**M.P. Sharma**



**R.K. Sharma**



**V.K. Murthy**

## Mathematics

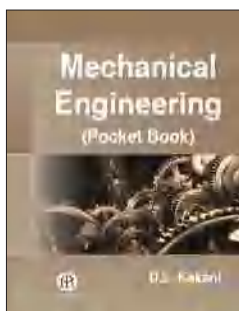
## Mechanical Engg.



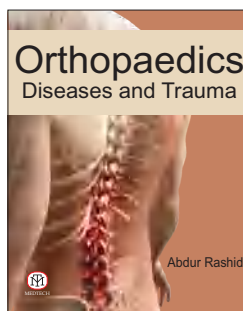
*Engaging Sciences—Developing Minds!*



### Physics



**D.L. Kakani**



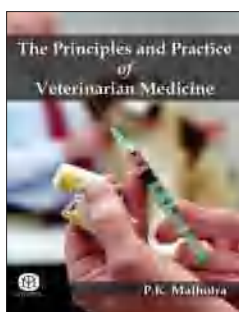
**Abdur Rashid**

### Medical Science



**C.P. Gupta**

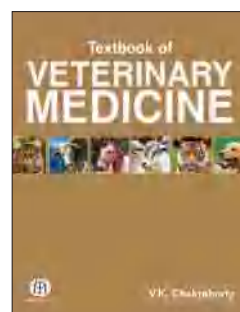
### Veterinary Sciences



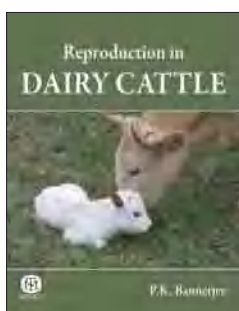
**P.K. Malhotra**



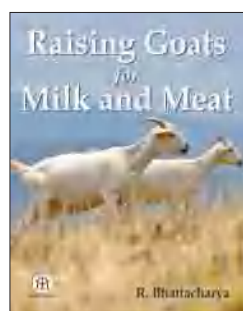
**V.K. Chakraborty**



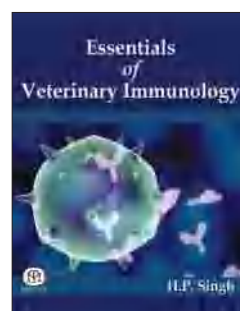
**V.K. Chakraborty**



**P.K. Banerjee**



**R. Bhattacharya**



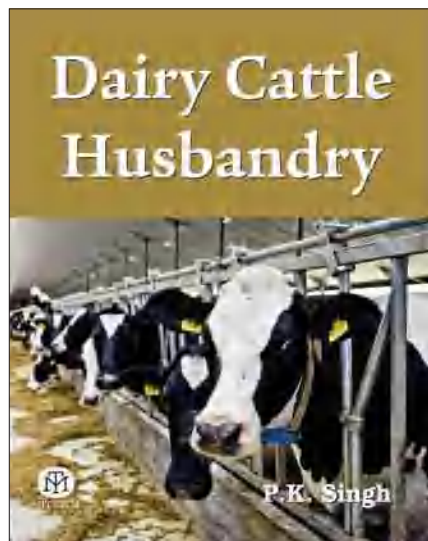
**H.P. Singh**



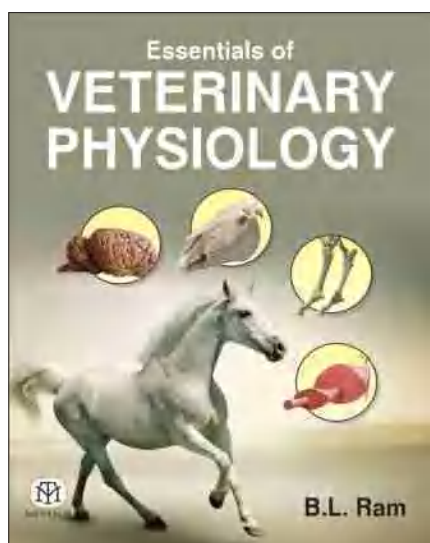
*Engaging Sciences–Developing Minds!*



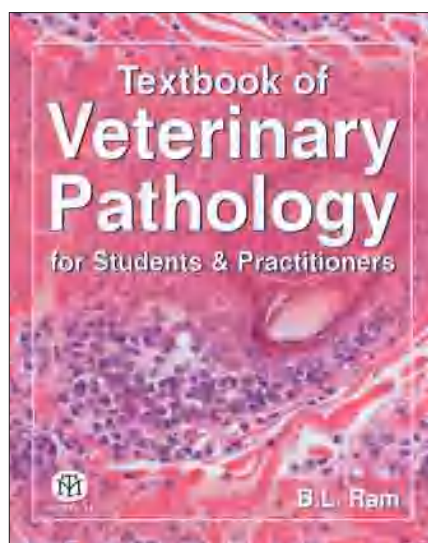
**C.P. Singh**



**P.K. Singh**



**B.L. Ram**



**B.L. Ram**



Engaging Sciences—Developing Minds!

## MedTech Titles

### AGRICULTURAL SCIENCE

1. Chemistry of Technology of Cereals as Food & Feed – Matz, Samuel	9789381714652	₹ 2095.00
2. Essentials of Economic Botany – Prasad, R.L.	9789384007935	₹ 395.00
3. Farm Power and Machinery Management – Hunt, Donnell	9789381714270	₹ 995.00
4. Flower & Plant Production – Singh, Rajender	9789384007843	₹ 495.00
5. Fundamentals of Agriculture – Mustafee, Sourajit	9789384007010	₹ 425.00
6. Genetic Engineering and Rice Biotechnology – Shukla, Gaurav	9789384007102	₹ 395.00
7. Introduction to Horticulture – Arora, P.S.	9789384007911	₹ 395.00
8. Mineral Nutrition of Plants – Sood, B.S.	9789384007850	₹ 595.00
9. Objective Agricultural Microbiology at a Glance – Verma, D.K.	9789384007461	₹ 175.00
10. Plant Biotechnology – Fasella, Hussain	9789381714751	₹ 2995.00
11. Soil Science Simplified – Kohnke	9789381714256	₹ 295.00
12. Statistical Methods for Agricultural Sciences – Mustafee, Sourajit	9789384007027	₹ 495.00
13. Textbook of Botany – Bhattacharya, P.K.	9789384007928	₹ 395.00
14. Principles and Problems of Botany – Bhattacharya, T.K.	9789384007904	₹ 495.00

### ANIMAL SCIENCES

1. Animal Sciences : The Biology, Care and Production of Domestic Animals – John R. Campbell	9789381714263	₹ 1795.00
2. Animal Feeding & Nutrition – Hunt, C. Church, T. Robbins	9789384007690	₹ 1095.00

### BIOLOGICAL SCIENCES

1. Microbiology, Phycology, Mycology, Lichenology & Plant Pathology – S. Sreekumar	9789384007676	₹ 250.00
2. Reproductive Biology of Plants (Quantitative Biology) – Hussain, A.D	9789384007874	₹ 495.00

### CHEMISTRY

1. Concept of Physical Chemistry – Lahiri, Jyotirmay	9789381714706	₹ 375.00
2. Handbook of Chemical Industries – P. Vishwanathan	9789384007959	₹ 595.00
3. Hawk's Physiological Chemistry – Kalsi, P.S.	9789384007362	₹ 1095.00
4. Organic Chemistry – Gene A. Davis	9789381714195	₹ 350.00
5. Organic Synthesis Through Disconnection Approach – Kalsi, P.S.	9789381714980	₹ 395.00
6. Textbook of Engineering Chemistry – Sharma, Deepa	9789381714287	₹ 550.00
7. Textbook of Pericyclic Reactions – Majumdar, K.C.	9789384007379	₹ 350.00

### DENTISTRY

1. 1,001 Tips for Orthodontics and its Secrets – Yanez, R.E.	9789381714393	₹ 2295.00
--	---------------	-----------



*Engaging Sciences–Developing Minds!*

2. Minimal Invasive Dentistry – Dr. Mini Jain	9789384007768	₹ 595.00
3. Oral Surgery for Undergraduates and General Practitioners – Fernando Sole Besoain	9789381714140	₹ 2295.00
4. Pharmacology Simplified for Dental Students – Iyer, Ravikant	9789381714560	₹ 395.00
5. Syndromes in Oral and Maxillofacial Region – Nupur Kapoor	9789384007744	₹ 595.00

## DICTIONARIES

1. MedTec Medical Dictionary – Brown, Eric	9789381714096	₹ 595.00
2. MedTec Pocket Medical Dictionary – Brown, Eric	9789381714591	₹ 225.00

## EDUCATION

1. Aeolian Harp: An Anthology of Poetry in English – P. Radhika	9789381714676	₹ 105.00
2. English in the Internet Era – C.P. Satheesh	9789384007669	₹ 125.00
3. Knowledge Management for Sustainable Development – Munshi, Usha	9789381714720	₹ 1295.00

## ENGINEERING & TECHNOLOGY

1. A Textbook of Chemical Engineering (Vol. 1) – Zaveri, Vikas	9789384007072	₹ 595.00
2. A Textbook of Chemical Engineering (Vol. 2) – Zaveri, Vikas	9789384007089	₹ 695.00
3. An Introduction to Ground Improvement Engineering – Mittal, S.	9789381714362	₹ 325.00
4. Analysis of Microcontrollers – Kothari, D.P.	9789381714294	₹ 275.00
5. Concepts of Information Theory & Coding – Dr. P.S. Satyanarayana	9789384007980	₹ 395.00
6. Design of Steel Structures – Shanti Kumar	9789384007188	₹ 295.00
7. Digital Filters and Signal Processing – Ramamurthy, S.	9789384007041	₹ 350.00
8. Digital Image Processing – Anand, Rishabh	9789384007386	₹ 595.00
9. Engineering Chemistry – Emich, Friedrich	9789381714522	₹ 795.00
10. Engineering Drawing – Annaiah, M.H.	9789384007775	₹ 395.00
11. Essentials of Nanotechnology – Anand, Rishabh	9789381714508	₹ 395.00
12. Foundations of Environmental Engineering – C. David Copper, John D. Dietz, Debra R. Reinhart	9789384007638	₹ 995.00
13. Low-Power Digital VLSI Design – Ramamurthy, S.	9789384007034	₹ 395.00
14. Object Oriented Approach using C++ – Kothari, D.P.	9789381714461	₹ 275.00
15. Powder Metallurgy: for Automotive, Aluminium Alloys, Hard and Super Hard Materials – Ramakrishnan, P.	9789381714485	₹ 1395.00
16. Steel Designers' Handbook – Shyam, Tinyo, Gorec	9789384007706	₹ 995.00
17. Steel Designers' Handbook – Shyam, Tinyo, Gorec	9789384007713	₹ 695.00
18. Textbook of Digital Electronics – Vasudevan	9789381714539	₹ 350.00
19. The Linear & Digital Integrated Circuits Design Primer – Sudhakar, Anil	9789381714850	₹ 225.00
20. The Nanoscope: An Introduction to Nanoscience & Nanophotonics – Santhi A.	9789384007652	₹ 595.00
21. VHDL Modeling for Digital Design Synthesis – Ramamurthy, S.	9789384007003	₹ 395.00





Engaging Sciences—Developing Minds!



## ENVIRONMENTAL SCIENCES

1. Disaster Management – Sharma, Vinod K.	9789381714317	₹ 1395.00
2. Global Warming and Climate Change – Roy, M.K. Ghosh	9789384007737	₹ 395.00
3. Knowledge Management for Sustainable Dev. – Munshi, Usha	9789381714720	₹ 1295.00
4. Renewable Energy – Ghosh Roy, M.K.	9789384007157	₹ 495.00
5. Textbook of Environmental Science – De, A.K. / Arnav K. De	9789381714546	₹ 225.00
6. Textbook of Environmental Studies – Dr. Maruthesha Reddy M.T	9789384007805	₹ 295.00
7. Water Resources: Strategic Overview for Global Sustainability – Ghosh Roy, M.K.	9789384007331	₹ 495.00

## FOOD SCIENCES

1. Commercial Vegetable Processing – Luh, Bob Shiun	9789381714645	₹ 1395.00
2. Food Microbiology – Adam, M., Dick, M.	9789381714614	₹ 2995.00
3. Handling, Transportation and Storage of Fruits and Vegetables: Vegetables and Melons (Vol. 1) – Lloyd Ryall, A.	9789381714621	₹ 1095.00
4. Handling, Transportation and Storage of Fruits and Vegetables: Fruits and Tree Nuts (Vol. 2) – Lloyd Ryall, A.	9789381714638	₹ 1095.00
5. Chemistry of Technology of Cereals as Food & Feed – Matz, Samuel	9789381714652	₹ 2095.00

## GENERAL

1. Books for National Development – Sir Paulias & Ahuja	9789381714379	₹ 395.00
2. Christianity: Faith and Holy Days – Sir Paulias & Ahuja	9789381714768	₹ 250.00

## GENERAL

1. Water Resources: Strategic Overview for Global Sustainability – Ghosh Roy, M.K.	9789384007331	₹ 495.00
--	---------------	----------

## BEST SELLERS

1. Biostatistics – Rastogi, Veer Bala	9789384007591	₹ 495.00
2. Essentials of Biotechnology – Crichton, M.	9789381714492	₹ 795.00
3. Essentials of Biotechnology – Crichton, M.	9789381714690	₹ 1995.00
4. Laboratory Manual of Microbiology & Biotechnology – Dr. Aneja	9789381714553	₹ 595.00
5. Organic Evolution – Rastogi, Veer Bala	9789381714515	₹ 695.00
6. Practical Manual of Biochemistry – R. Sharma, S. Sharma	9789381714737	₹ 395.00
7. Principles of Molecular Biology – Rastogi, Veer Bala	9789384007478	₹ 795.00

## LIFE SCIENCES

1. Concepts of Molecular Genetics – K.P. Singh	9789384007867	₹ 395.00
2. Ecology of Aquatic Systems – Dey, S.	9789384007058	₹ 695.00
3. Genetics of Plant – I.K. Singh, V.K. Walia	9789384007874	₹ 395.00
4. Microbiology, Phycology, Mycology, Lichenology & Plant Pathology – S. Sreekumar	9789384007676	₹ 250.00
5. Knowledge Management for Sustainable Development – Munshi, Usha	9789381714720	₹ 1295.00



Engaging Sciences–Developing Minds!

## MATHEMATICS

- |  |               |          |
|--|---------------|----------|
| 1. A Course in Real Analysis – Sayad Ali Ahmed | 9789384007997 | ₹ 395.00 |
| 2. Advanced Mathematics – Srinivasa G.         | 9789384007485 | ₹ 295.00 |
| 3. Textbook of Real Analysis – R.L. Gupta      | 9789384007836 | ₹ 395.00 |

## MEDICAL SCIENCES

- |  |               |           |
|--|---------------|-----------|
| 1. Basis of Pediatrics – Parvez Akbar Khan   | 9789381714027 | ₹ 795.00  |
| 2. Concise Anatomy and Physiology: for Paramedical, Nursing, Pharmacy, and Physiotherapy Students – Asghar, Adil | 9789381714713 | ₹ 375.00  |
| 3. Handbook of Preventive Care in Obstetrics and Gynecology – Gupta, S.  | 9789381714355 | ₹ 295.00  |
| 4. Human Embryology – Laiq Hussain Siddiqui  | 9789381714034 | ₹ 695.00  |
| 5. Medical Histology – Liaq Hussain Siddiqui   | 9789381714119 | ₹ 595.00  |
| 6. MedTec Made Simple Series Clinical Cardiology, Chizner  | 9789381714225 | ₹ 495.00  |
| 7. MedTec Made Simple Series Clinical Pathophysiology – Berkowitz, Aaron   | 9789381714188 | ₹ 350.00  |
| 8. MedTec Made Simple Series Clinical Biochemistry – Goldberg  | 9789381714164 | ₹ 295.00  |
| 9. MedTec Made Simple Series Clinical Anatomy & Physiology – Stewart   | 9789381714249 | ₹ 395.00  |
| 10. MedTec Made Simple Series Immunology – Mahmoudi  | 9789381714201 | ₹ 275.00  |
| 11. MedTec Made Simple Series Pathology – Zaher, Aiman   | 9789381714171 | ₹ 395.00  |
| 12. MedTec Made Simple Series Ophthalmology – Goldberg   | 9789381714218 | ₹ 195.00  |
| 13. Short Textbook of Medical Diagnosis and Management – Danish  | 9789381714010 | ₹ 1295.00 |
| 14. Textbook of Medical Physiology – Krishna, A.P.   | 9789384007324 | ₹ 695.00  |
| 15. The Student's Anatomy of Exercise Manual – Ken Ashwell   | 9789381714126 | ₹ 995.00  |

## NURSING SCIENCE

- |  |               |          |
|--|---------------|----------|
| 1. Basics of Nursing Biochemistry – Ravi, B.V.   | 9789381714669 | ₹ 225.00 |
| 2. Sociology for Nurses – Krishnamurthy K.V.     | 9789384007164 | ₹ 295.00 |
| 3. Concise Anatomy and Physiology – Asghar, Adil | 9789381714713 | ₹ 375.00 |

## PHARMACEUTICAL SCIENCE

- |   |               |           |
|---|---------------|-----------|
| 1. Essentials of Pharmacology, Danielson, J.          | 9789381714775 | ₹ 995.00  |
| 2. Pharmaceutical Calculations – Ashutosh             | 9789381714577 | ₹ 495.00  |
| 3. Pharmacology – Ballington                          | 9789381714799 | ₹ 1095.00 |
| 4. Pharmacy Calculations for Technicians – Ballington | 9789381714973 | ₹ 1095.00 |
| 5. Pharmacy Practice – Ballington                     | 9789381714751 | ₹ 1095.00 |

## PHYSICS

- |   |               |          |
|---|---------------|----------|
| 1. Atomic and Nuclear Physics – T.A. Littlefield, N. Thorley  | 9789381714607 | ₹ 325.00 |
| 2. Basic Electromagnetic Theory – James Babington             | 9789384007423 | ₹ 295.00 |
| 3. Computational Physics – Darren Walker                      | 9789384007416 | ₹ 295.00 |
| 4. Introductory Solid State Physics – David Schmool           | 9789384007409 | ₹ 395.00 |
| 5. Mechanics: A Modelling Approach – Derek Raine              | 9789384007393 | ₹ 295.00 |
| 6. Optoelectronics: Sensors and Instrumentation – Ghosh, M.K. | 9789381714584 | ₹ 395.00 |
| 7. Quantum Mechanics – Dennis Morris                          | 9789384007447 | ₹ 295.00 |
| 8. Quantum Theory – J. Lahiri                                 | 9789384007966 | ₹ 295.00 |
| 9. The Special Theory of Relativity – David Morris            | 9789384007430 | ₹ 295.00 |
| 10. Undergraduate Physics – Matthew M. J. French              | 9789384007454 | ₹ 295.00 |



*Engaging Sciences—Developing Minds!*



## MedTech Forthcoming

1. Textbook of Horticulture – P.S. Arora / A.K. Das
2. Mathematics in Agriculture – R.K. Sharma
3. Vegetable Growing – A.P. Yadav
4. Plant Pathology – Veer Bala Rastogi/ Monika Rustagi
5. The Diversity of Green Plants – A.P. Singh
6. Structure, Life and Growth of Plants – I.K. Srivastava
7. Textbook of Systematic Botany – P.K. Kar
8. Botany (Agricultural Applications) – K.N. Mishra/ P.K. Kar
9. Ichthyology – D.K. Mukherjee
10. Handbook of Chemical Industries – P. Vishwanathan
11. Chemistry of Chemical Industries – P. Vishwanathan
12. Physical Chemistry (Part 2nd & 3rd) – J. Lahiri
13. Advanced Organic Chemistry – Ashutosh Kar
14. Design of Steel Structures – D.C. Mitra
15. Fundamentals of Electricity – C.M. Kothari/ B.K. Aggarwal
16. Textbook of Electronics for Electricians and Engineers – T. M. Ansari
17. Electricity for Mine Engineers – Parimol Chakraborty
18. Essential Education for Environment and Sustainability – A.K. Jena
19. Dynamic Aspects of Biochemistry – D.K. Sharma
20. Principles of Genetics – P.K. Singh/ D.S. Rao
21. Principles of Biochemistry – Veer Bala Rastogi
22. Fundamentals of Microbiology – Dr. Shailaja Rani
23. Biotechnology: A Textbook of Industrial Microbiology – Wulf Crueger and Anneliese Crueger
24. Non-parametric Statistical Methods – Debashish Bhattacharya
25. Mechanisms and Machine Theory – Ye Zhonghe/ Lan Zhao/ M.R. Smith
26. Forensic Medicine and Toxicology – Pradeep Kumar
27. Electromagnetic Fields and Waves – Robert R.G. Yang/ Thomas T. Y. Wong
28. Plant Growth and Development – Anwar Hussain
29. Forensic Psychiatry (Legal Psychiatry) – C. Ram Reddy
30. Concepts of Information Theory and Coding – P.S. Satyanarayana
31. Fundamentals of Water Pollution – A.K. De
32. Physical Chemistry – Hu ying et. al
33. Contemporary Forensic Dentistry – Akhilesh Chandra
34. Animal Feeding and Nutrition – C. Church/ T. Robbins
35. Textbook of Real Analysis – S.K. Gupta
36. Flower and Plant Production – Rajender Singh
37. Mineral Nutrition of Plants – B.S. Sood
38. Concepts of Molecular Genetics – K. P. Singh
39. The Reproductive Biology of Plants – Anwar Hussain
40. Quantum Theory – J. Lahiri
41. The Physiology of Flowering Plants – Namita Chandra/ A. K. Chauhan
42. Gene Expression in Animal Development – D.N. Choubey/ D.K. Bhardwaj
43. Pest Control in Gardening Plants – B.S. Aggarwal
44. Horticultural Science – P.S. Arora
45. Cell Structure and Functions – Bindu Sarkar/ Rajib Shukla
46. Bacterial Metabolism – Monika Rustagi
47. Modern Fruit Production – S.D. Baruah
48. Botany with Agricultural Applications – B.S. Sood
49. Calculus of Variations – R.K. Sharma
50. Crop Protection Needs For Agriculture – Tulsi Pada Mustafee
51. Forest Farming – P.K. Das
52. Handbook of Electrical Engineering – V.K. Basu
53. Freshwater Fish Pond Culture and Management – Sudhanshu Dey
54. Mechanical Engineering (Pocket Book) – D.L. Kakani
55. Immunology – Veer Bala Rastogi
56. Orthopaedic Diseases and Trauma – Abdur Rashid
57. A Textbook of Veterinary Pathology for Students and Practitioners – B.L. Ram
58. Essentials of Veterinary Physiology – B.L. Ram
59. Textbook of Veterinary Medicine – V.K. Chakraborty
60. Veterinary Bacteriology – V.K. Chakraborty
61. Dairy Cattle Husbandry – P.K. Singh
62. Reproduction in Dairy Cattle – P.K. Bannerjee
63. Raising Goats for Milk and Meat – R. Bhattacharya
64. Primary Preventive Dentistry – Neha G. Aggarwal
65. Principles and Problems of Botany – T.K. Bhattacharya
66. Introduction to Horticulture – P.S. Arora



*Engaging Sciences—Developing Minds!*

## Indian Reprints

1. Air Pollution Control – C. David Copper, F.C. Alley	9789384007522	₹ 4495.00
2. Biotechnology – Daugherty E.	9789381714782	₹ 1195.00
3. Business Anthropology – Jordan, Ann T.	9789384007218	₹ 295.00
4. Essentials of Life Science – Xu, Jianping	9789381714928	₹ 995.00
5. Essentials of Pharmacology – Danielson, J.	9789381714775	₹ 995.00
6. Foundations of Environmental Engineering – C. David Copper, John D. Dietz, Debra R. Reinhart	9789384007638	₹ 995.00
7. Handbook for Teaching Secondary School Social Studies – James W. Stockard	9789384007195	₹ 395.00
8. Hazardous Waste Management – Michael D. LaGrega, Phillip L. Buckingham, Jeffrey C. Evans	9789384007607	₹ 3995.00
9. Human Relations and Police Work – Miller, Larry	9789384007232	₹ 395.00
10. Hydrology and Hydraulic Systems – Ram S. Gupta	9789384007539	₹ 4995.00
11. Manual of Fishes: Ichthyology, Fish Biology and Aquaculture – Gregor Cailliet, Love, Ebeling	9789384007584	₹ 495.00
12. MedTec Made Simple Series: Clinical Anatomy & Physiology – Joseph Stewart	9789381714249	₹ 395.00
13. MedTec Made Simple Series: Clinical Cardiology – Michael A. Chizner	9789381714225	₹ 495.00
14. MedTec Made Simple Series: Clinical Pathophysiology – Aaron Berkowitz	9789381714188	₹ 350.00
15. MedTec Made Simple Series: Immunology – Massoud Mahmoudi	9789381714201	₹ 275.00
16. MedTec Made Simple Series: Ophthalmology – Stephen Goldberg	9789381714218	₹ 195.00
17. MedTec Made Simple Series: Orthopedics – Tétreault, Patrice	9789381714232	₹ 295.00
18. MedTec Made Simple Series: Pathology – Aiman Zaher	9789381714171	₹ 395.00
19. NONVIOLENCE: Theory and Practice – Robert L. Holmes	9789384007317	₹ 395.00
20. Nutrition across the Life Span – Mary Kay Mitchell	9789384007621	₹ 995.00
21. Nutrition across the Life Span – Mary Kay Mitchell	9789384007621	₹ 995.00
22. Pharmacology – Ballington	9789381714799	₹ 1095.00
23. Pharmacy Calculations for Technicians – Ballington	9789381714973	₹ 1095.00
24. Pharmacy Practice – Don A. Ballington	9789381714805	₹ 1095.00
25. Physical Hydrology – S. Lawrence Dingman	9789384007614	₹ 3995.00
26. Research Methods in Psychology—A Handbook – Schweigent	9789384007225	₹ 495.00
27. Surface Water-Quality Modeling – Steven C. Chapra	9789384007515	₹ 2995.00
28. The Mythology of Crime and Criminal Justice – Kappeler, Victor E.	9789384007201	₹ 495.00
29. Water Chemistry – Mark M. Benjamin	9789384007560	₹ 3995.00
30. Water Resources: Strategic Overview for Global Sustainability – Ghosh Roy, M.K.	9789384007331	₹ 495.00
31. Weed Science: Principles and Applications – Wood Powell	9789384007577	₹ 695.00