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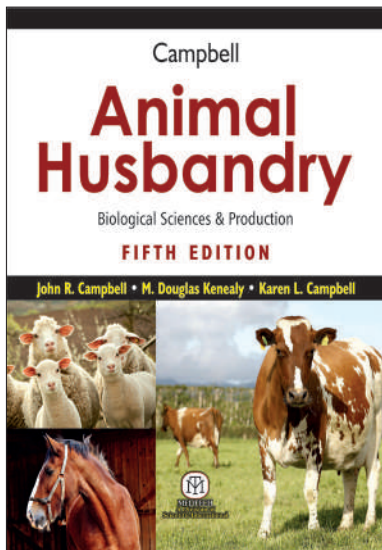
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Life Sciences

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ANIMAL SCIENCE



Animal Husbandry Biological Sciences & Production

John R Campbell • M Douglas Kenealy
Karen L Campbell

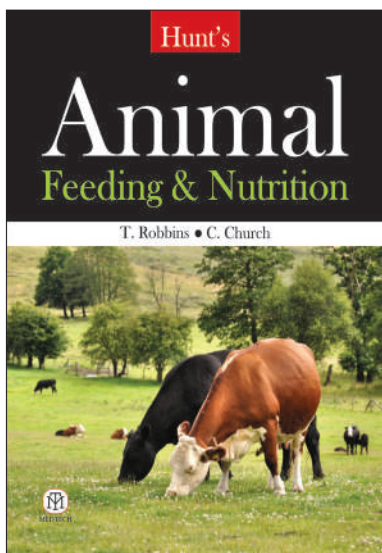
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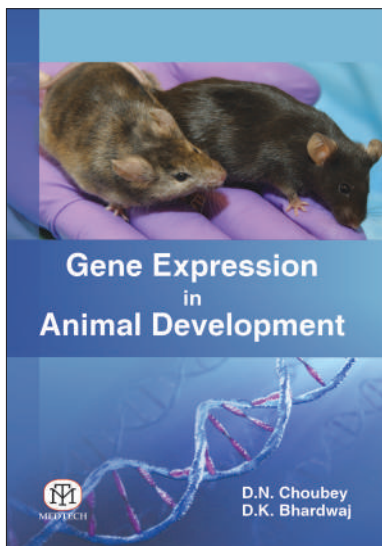
T Robbins • C Church



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- ♦ 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

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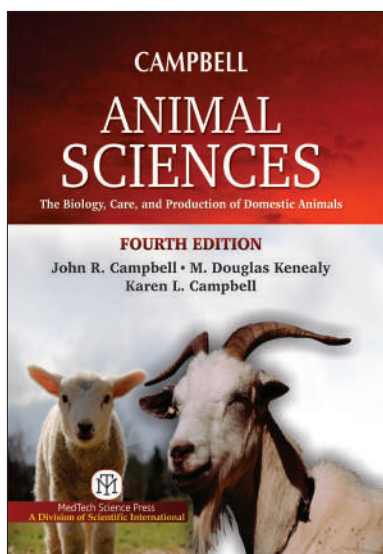
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DN Choubey • DK Bhardwaj

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- ♦ Gene Transcription and the Initiation of Cell Differentiation
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- ♦ Glossary
- ♦ References and Author Index
- ♦ Subject Index

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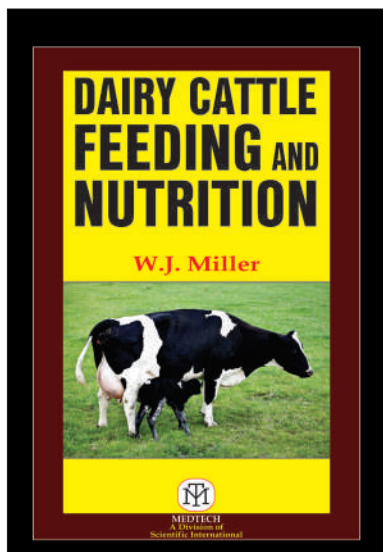
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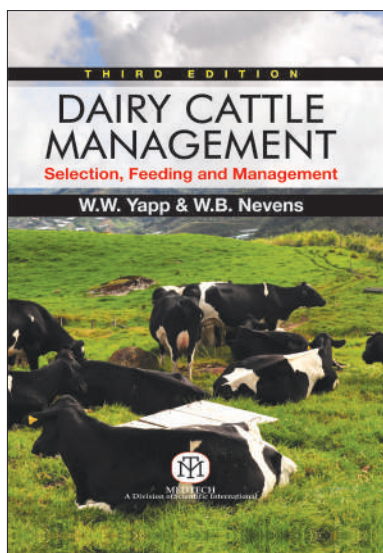
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WJ Miller

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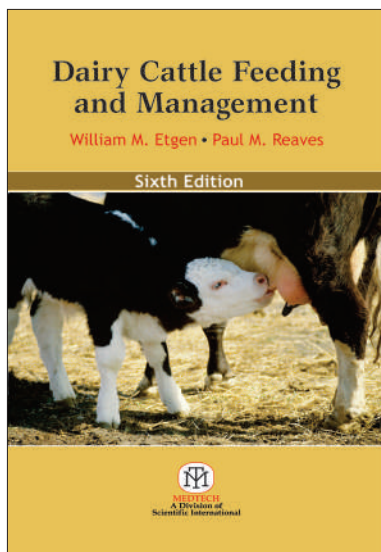
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3rd Edition

Contents

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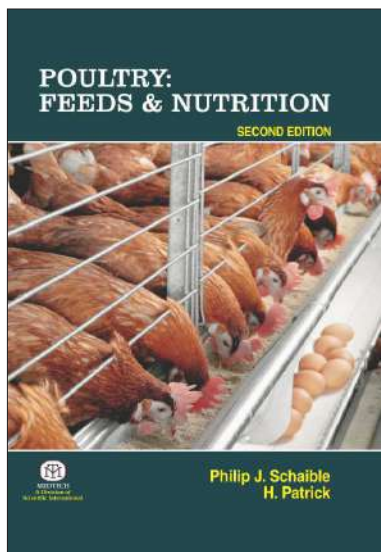
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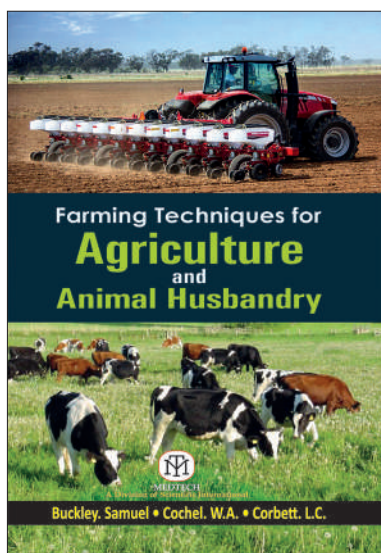
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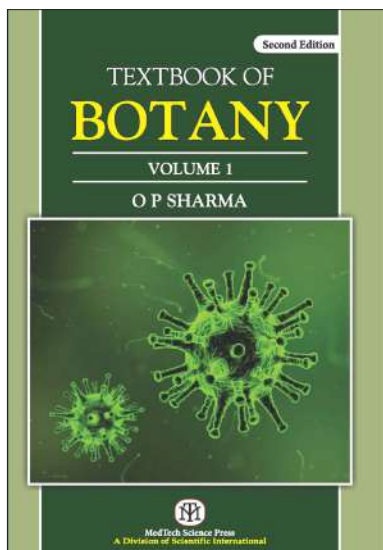
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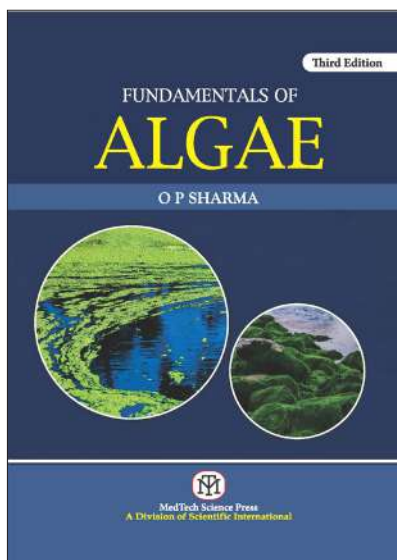
Section B: FUNGI

♦ Introduction and Classification ♦ Economic Importance of Fungi ♦ Myxomycota ♦ Mastigomycotina ♦ Zygomycotina (Zygomycetes) ♦ Ascomycotina ♦ Basidiomycotina ♦ Deuteromycotina ♦ Lichens ♦ Bacteria ♦ Viruses ♦ Plant Diseases and their Control (general account)

Section C: BRYOPHYTA

♦ Introduction and Classification ♦ Hepaticopsida ♦ Anthoceropsida ♦ Bryopsida (Musci) ♦ Evolution of the Gametophyte and Sporophyte in Bryophytes ♦ Appendix ♦ Further Reading ♦ Index

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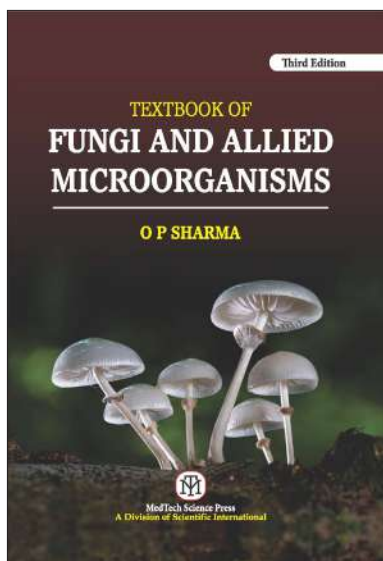
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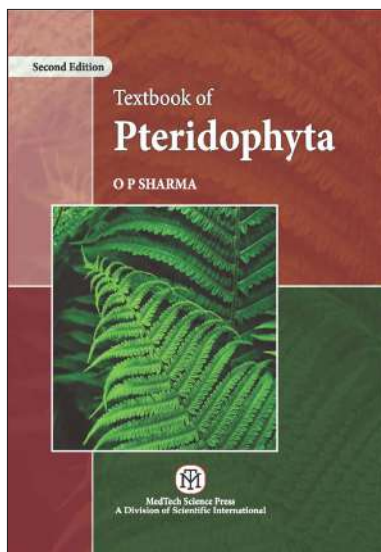
Fungi and Allied Microorganisms

O P Sharma

Contents

♦ Introduction ♦ History of Mycology (Chronology of Major Events) ♦ Fungal Cell: Structure and Composition ♦ Classification of Fungi ♦ Myxomycota ♦ Eumycota ♦ Mastigomycotina (General Account and Chytridiomycetes) ♦ Hyphochytridiomycetes ♦ Oomycetes ♦ Zygomycotina (Zygomycetes) ♦ Trichomycetes ♦ Ascomycotina (Ascomycetes) (General Account) ♦ Hemiascomycetes ♦ Loculoascomycetes ♦ Plectomycetes ♦ Laboulbeniomycetes ♦ Pyrenomycetes ♦ Discomycetes ♦ Basidiomycotina (General Account) ♦ Teliomycetes ♦ Hymenomycetes ♦ Gasteromycetes ♦ Anamorphic Fungi (Deuteromycotina or Deuteromycetes) ♦ Economic Importance of Fungi ♦ Fungi and Biotechnology ♦ Mushroom Cultivation ♦ Single-Cell Protein ♦ Heterothallism in Fungi ♦ Sex Hormones and Pheromones in Fungi ♦ Mycorrhizae ♦ Lichens ♦ Bacteria ♦ Viruses ♦ Plant Diseases and their Control (General Account) ♦ Selected Diseases Caused by Fungi, Bacteria and Viruses – (A) Some Diseases Caused by Fungi, (B) Some Diseases Caused by Bacteria, (C) Some Diseases Caused By Viruses ♦ Appendix 1 ♦ Appendix 2 ♦ Appendix 3 ♦ Appendix 4 ♦ Appendix 5 ♦ Appendix 6 ♦ Index

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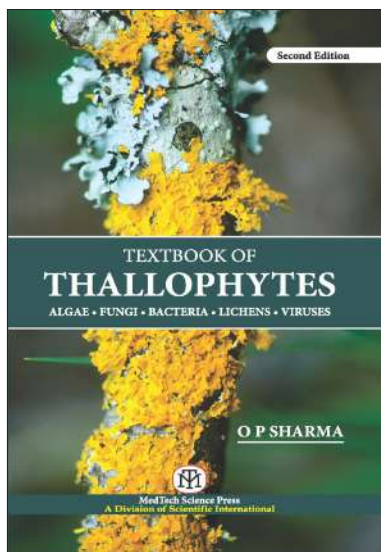
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Textbooks of Thallophytes

O P Sharma

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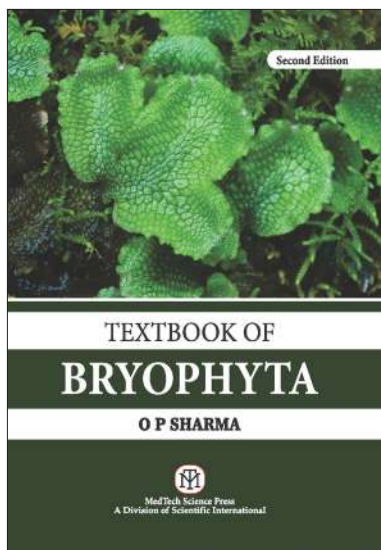
Part One ALGAE

♦ Introduction – Bibliography ♦ Classification – Bibliography ♦ Cytology – Bibliography ♦ Thallus Structure – Bibliography ♦ Life-Cycles – Bibliography ♦ Laboratory Culture and Staining – Bibliography ♦ Economic Aspects – Bibliography ♦ Myxophyceae (Blue-Green Algae) – Bibliography ♦ Chlorophyceae (Green Algae) – Bibliography ♦ Xanthophyceae (Yellow-Green Algae) – Bibliography ♦ Bacillariophyceae (Diatoms) – Bibliography ♦ Phaeophyceae (Brown Algae) – Bibliography ♦ Rhodophyceae (Red-Algae) – Bibliography ♦ Glossary – Bibliography ♦ Subject Index ♦ Author Index

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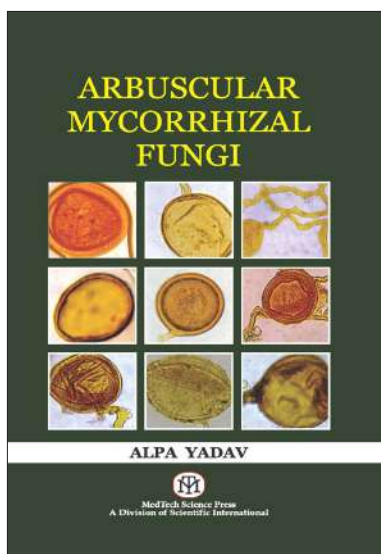
Textbook of Bryophyta

O P Sharma

Contents

♦ Introduction ♦ Classification ♦ Hepaticopsida: Takakiales and Calobryales ♦ Hepaticopsida (Jungermanniales) ♦ Hepaticopsida (Sphaerocarpaceae) ♦ Hepaticopsida (Monocleales) ♦ Hepaticopsida (Marchantiales) ♦ Anthoceropsida ♦ Bryopsida (General Account) ♦ Bryopsida (Selected Mosses) ♦ Gametophyte of Bryophytes ♦ Sporophyte of Bryophytes ♦ Spore Germination and Formation of Gametophyte ♦ Factors Affecting Sexuality in Bryophytes ♦ Alternation of Generations ♦ Phylogen of Bryophytes: Role of Genosystematics ♦ Morphogenesis ♦ Vegetative Reproduction and Regeneration in Bryophytes ♦ Origin and Fate of Archegonium in Bryophytes ♦ Apogamy and Apospory in Bryophytes ♦ Physiology of Bryophytes ♦ Chemical Constituents of Bryophytes ♦ Bryophytes as Indicators of Environment Conditions and Pollution ♦ Biologically Active Compounds from Bryophytes ♦ Bryophytes and their Role in Carbon and Nitrogen Cycling ♦ Evolution of the Gametophyte in Bryophytes ♦ Origin and Evolution of Sporophyte in Bryophytes ♦ Conduction in Bryophytes ♦ Elementary Cytogenetics and Cytotaxonomy of Bryophytes ♦ Ecology of Bryophytes ♦ Origin of Bryophytes and their Fossil History ♦ Economic Importance of Bryophytes ♦ Appendix I ♦ Appendix II ♦ Appendix III ♦ Appendix IV ♦ Index

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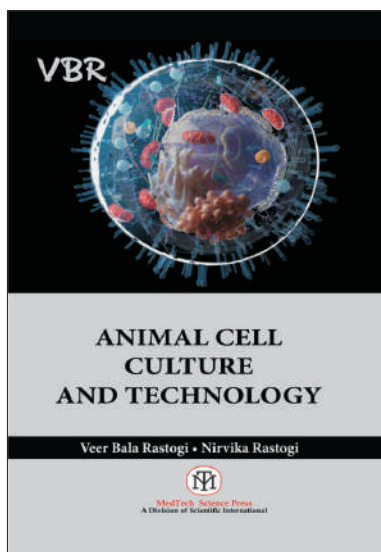
Arbuscular Mycorrhizal Fungi

Alpa Yadav

Contents

- ♦ General Introduction
- ♦ Survey and Enumeration of some oil yielding plants of Haryana
- ♦ Abundance and Distribution of Arbuscular Mycorrhizal (AM) fungi associated with some oil yielding plants
- ♦ Mass multiplication of dominant AM fungi associated with some oil yielding plants using different hosts and substrates
- ♦ Influence of dominant AM fungi alone and in combinations with some other bioinoculants on growth and yield of selected oil yielding plants
- ♦ Efficacy of AM fungi and other bioinoculants amended with different doses of super-phosphate and urea on growth performance of some selected oil yielding plants
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- ♦ References
- ♦ Annexure
- ♦ Appendix

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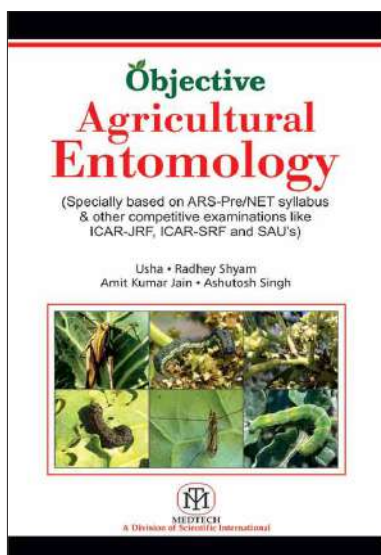
Animal Cell Culture and Technology

Veer Bala Rastogi

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- ♦ Introduction: The Use of Animal Cell Culture – ♦ References ♦ Protocol
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Objective Agricultural Entomology

Usha • Radhey Shyam • Amit Kumar Jain • Ashutosh Singh

Contents

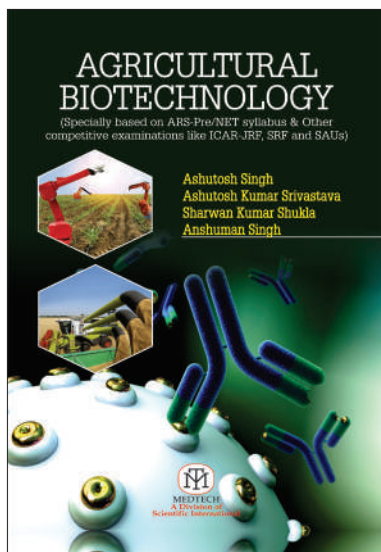
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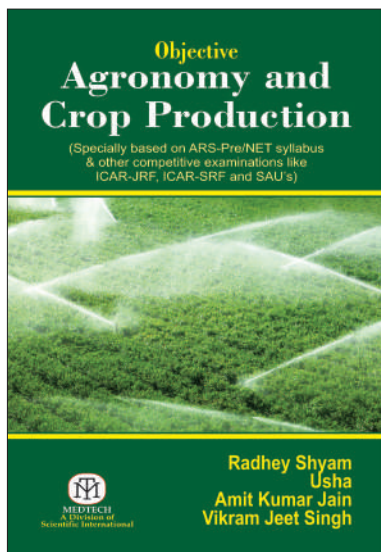
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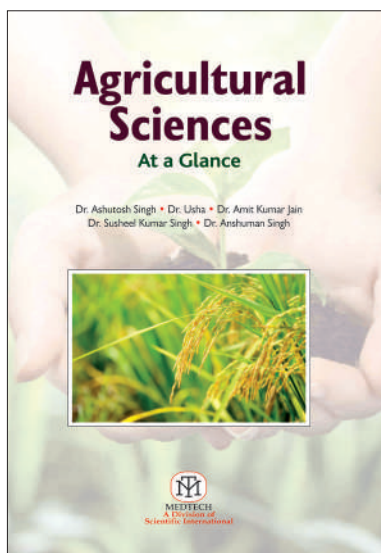
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- Unit III: Soil Fertility and Fertilizer Use
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- Unit XI: Plant Water Relationship Unit XII: Irrigation Water Management
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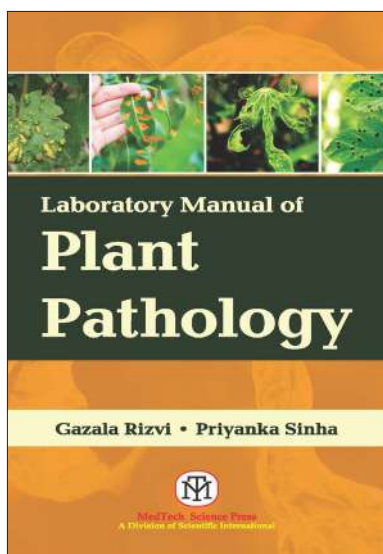
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- Unit II: Agricultural Sciences, Crop Production and Related Problems
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Laboratory Manual of Plant Pathology

Gazala Rizvi • Priyanka Sinha

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- ♦ Study of Microorganism

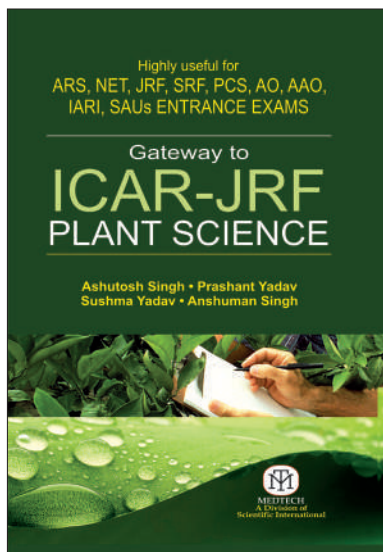
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- ♦ General Account of Bacteria ♦ Isolation of Bacteria ♦ Study of Bacteria in Different Culture ♦ Staining of Bacteria

SECTION - C

- ♦ Basic Concept About Plant Pathology ♦ Pathogenicity ♦ General Account of Fungi ♦ Isolation of Fungi ♦ Staining of Fungi ♦ Identification of Fungi ♦ Methods of Plant Disease Management

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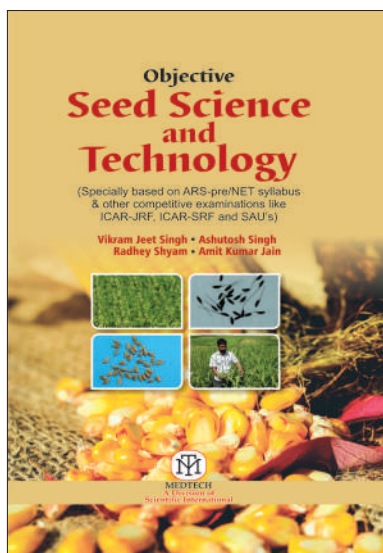
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Radhey Shyam • Amit Kumar Jain



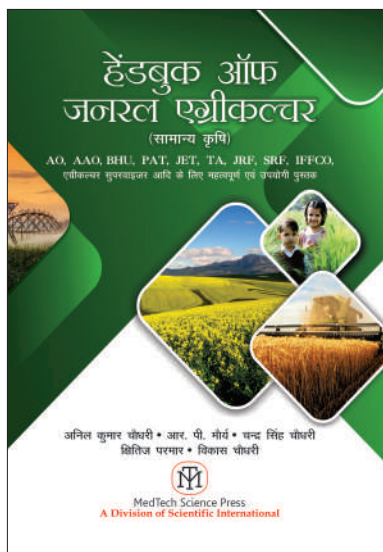
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- Unit II: Seed Production
- Unit III: Seed Processing
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- Unit V: Seed Storage
- Unit VI: Seed Health
- Unit VII: Seed Industry Development and Marketing
- Unit VIII: Protection of Plant Varieties
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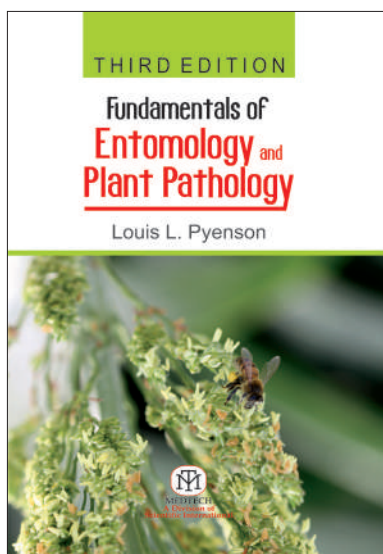
Handbook of General Agriculture

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- ◆ Causes of Plant Diseases ◆ The Annual Life History of Pathogens
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- ◆ Application Equipment I ◆ Application Equipment II
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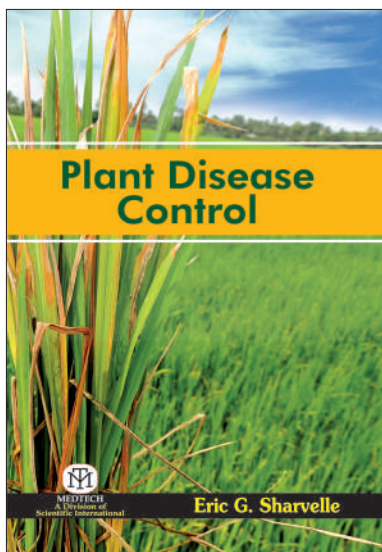
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- ◆ Some General Garden Pests
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- ◆ Pests of Small Fruits
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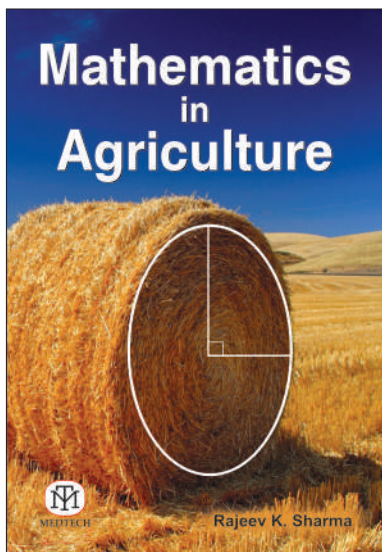
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- ♦ Principles of Plant Disease Control with Chemicals
- ♦ Chemical Control of Plant Diseases Through the Years
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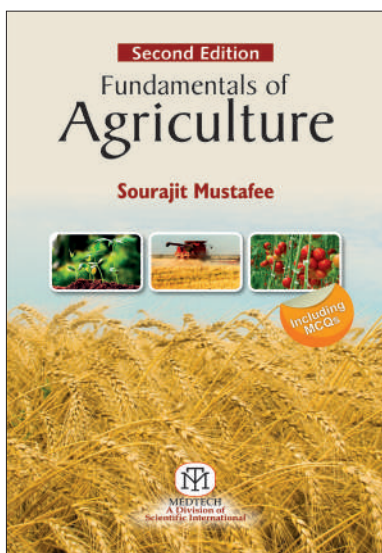
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- ♦ Soil fertility and management ♦ Soil erosion ♦ Agricultural zones of eastern and south-eastern Australia
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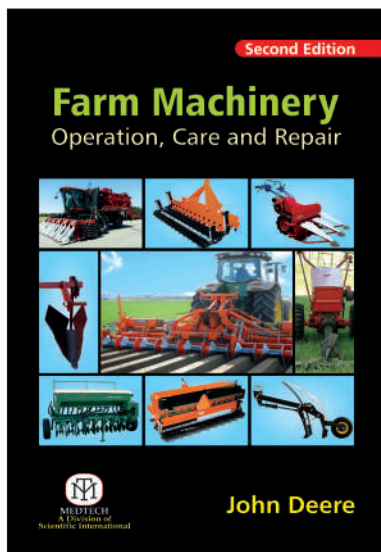
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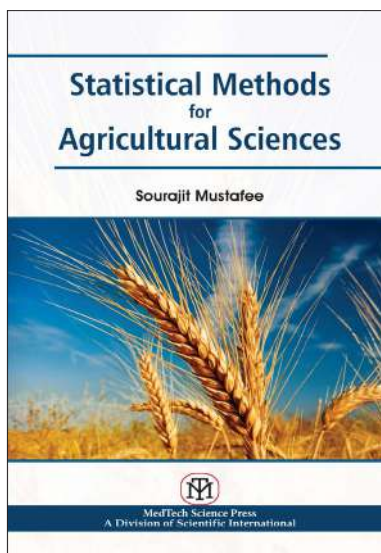
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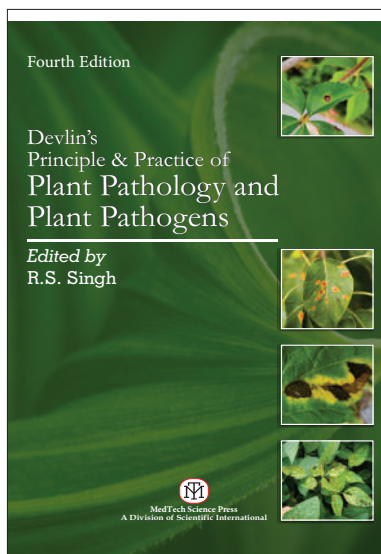
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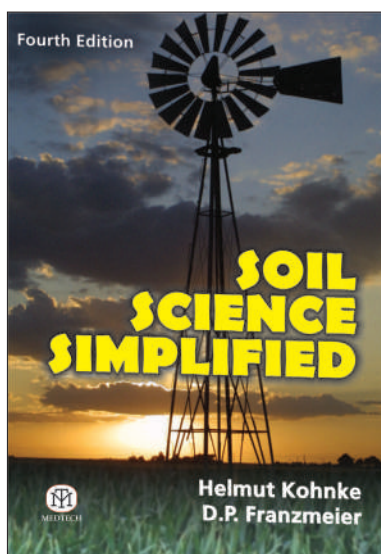
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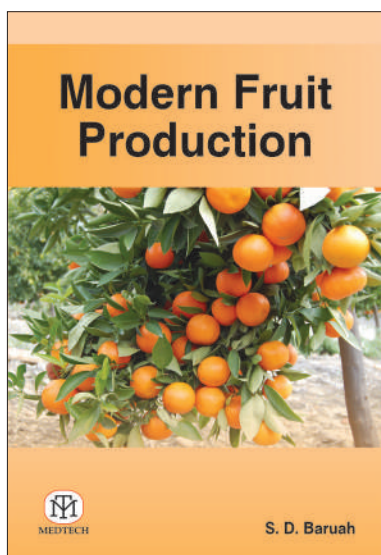
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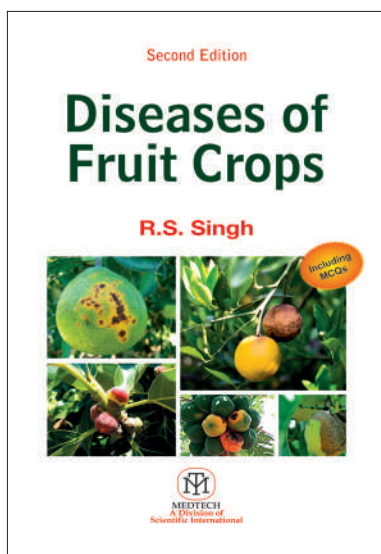
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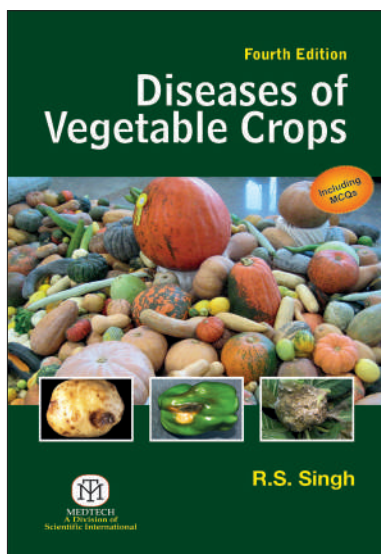
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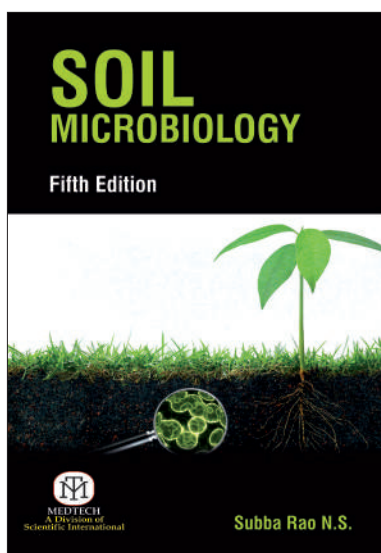
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- ♦ Diseases of Beet and Spinach
- ♦ Diseases of Okra, Coriander, Carrot and Lettuce
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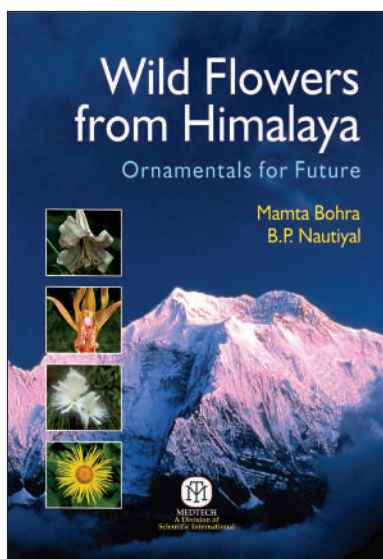
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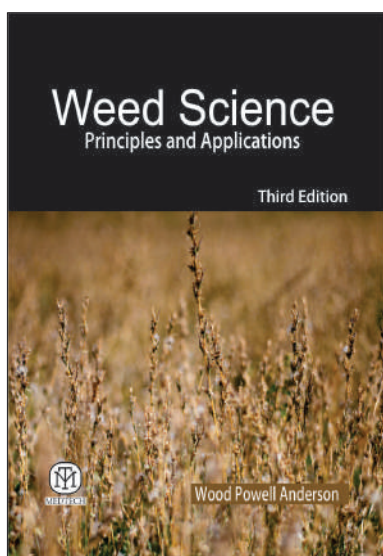
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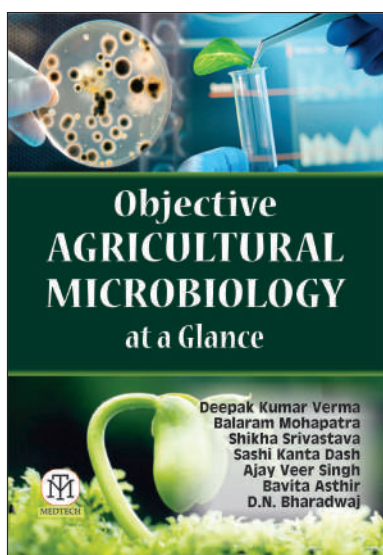
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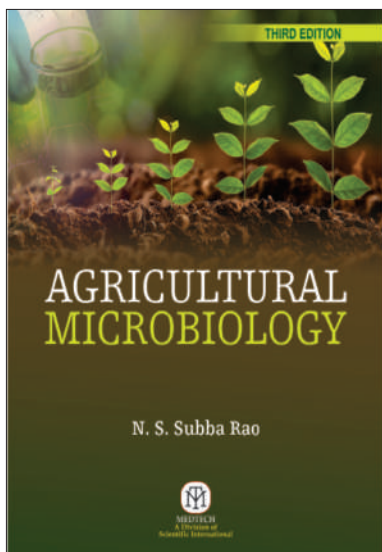
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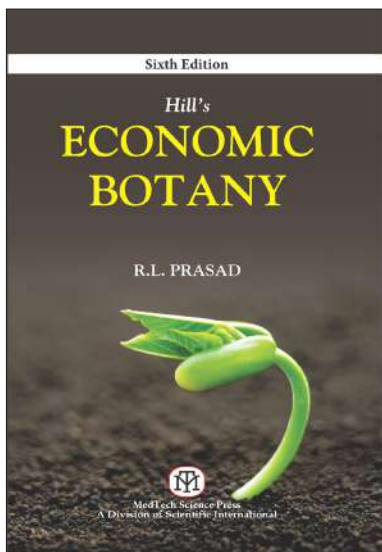
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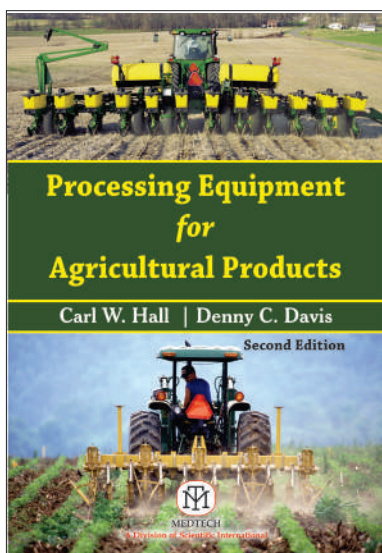
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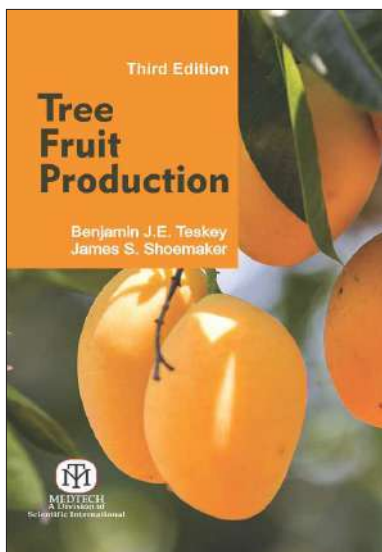
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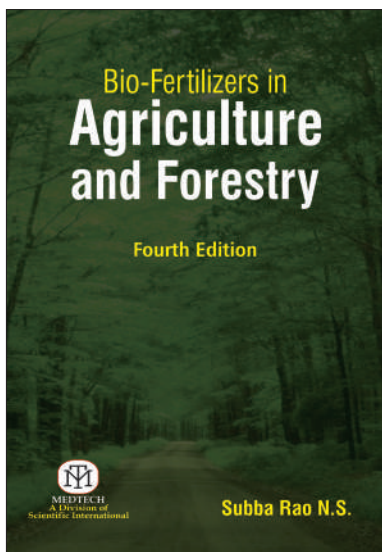
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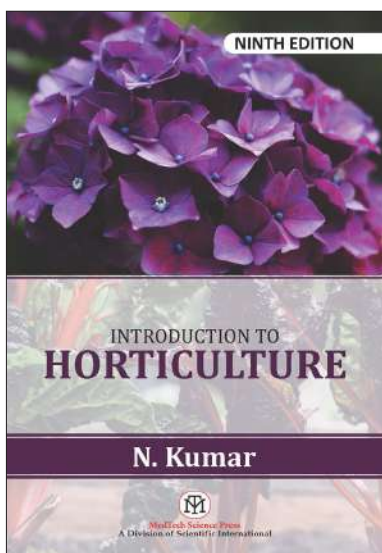
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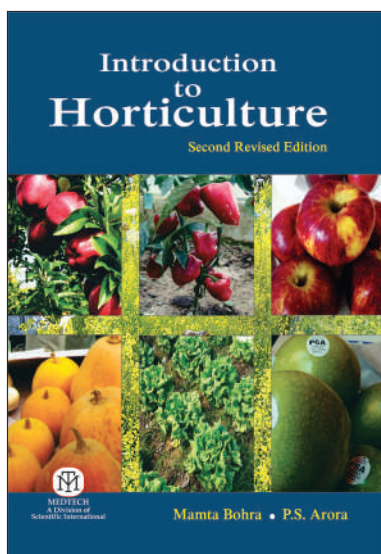
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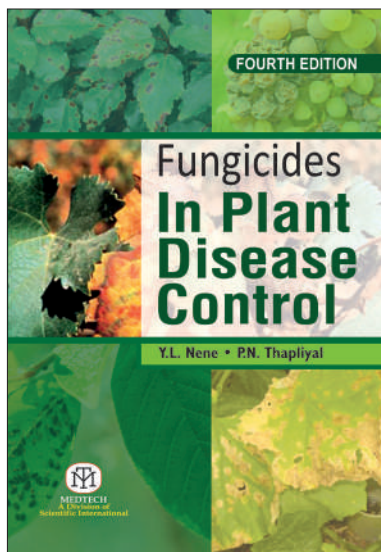
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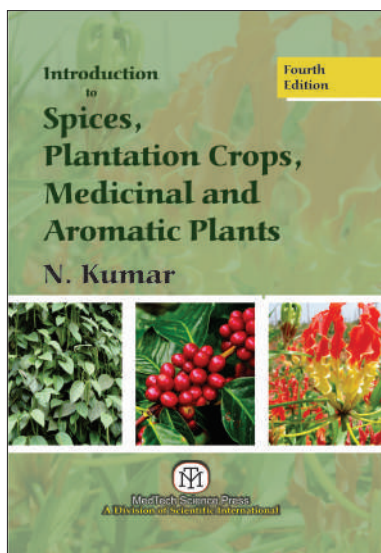
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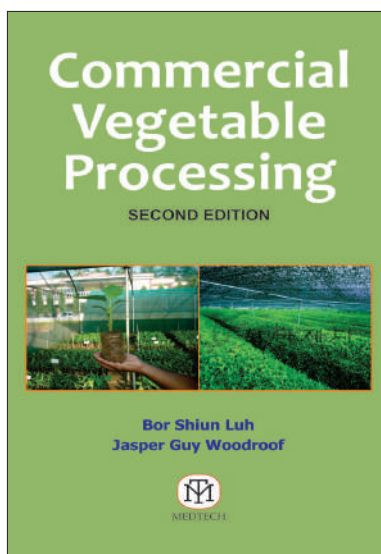
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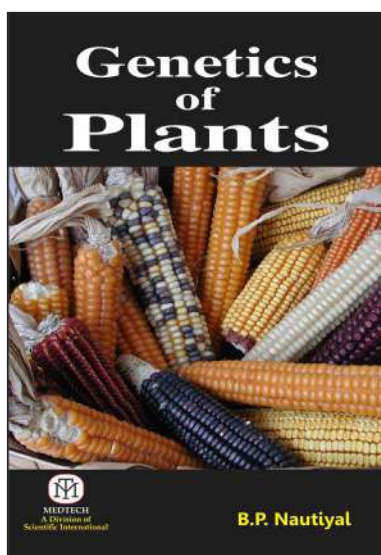
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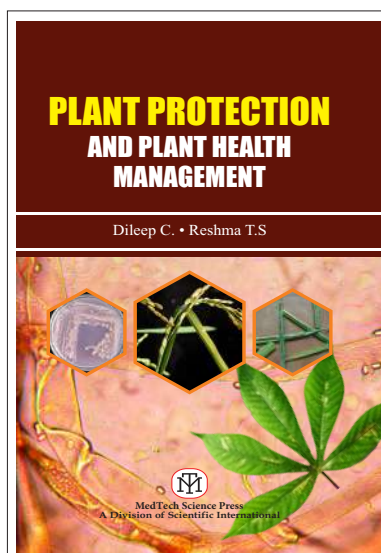
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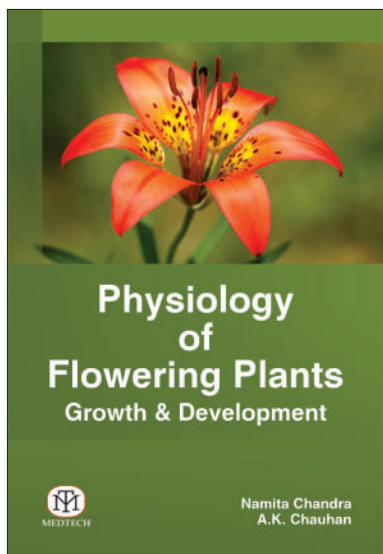
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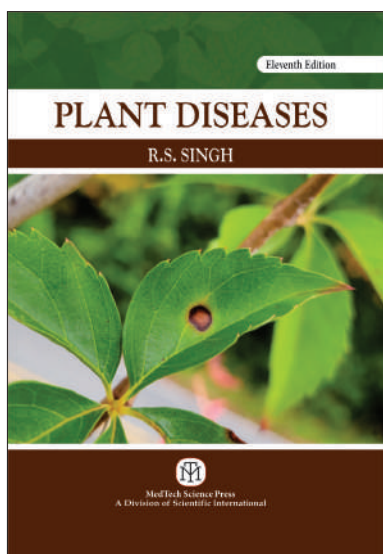
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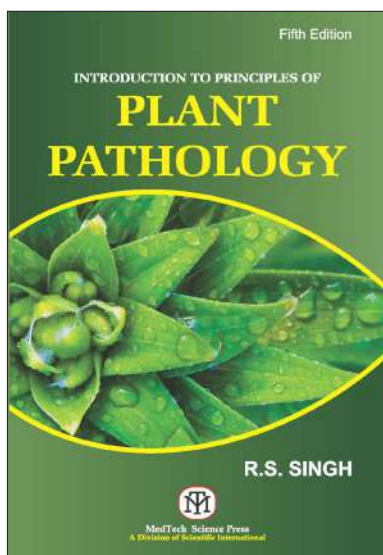
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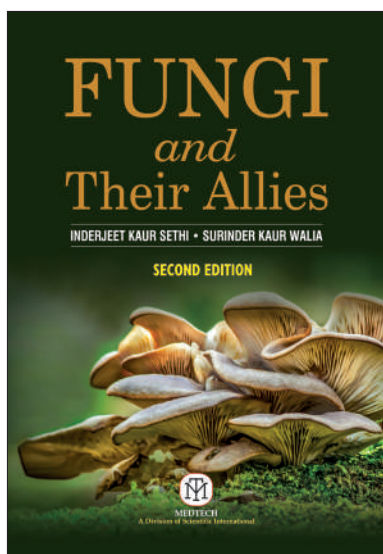
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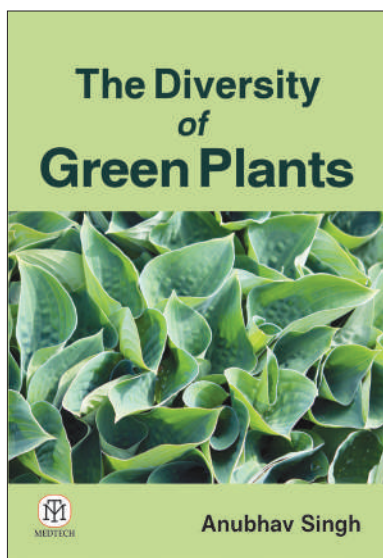
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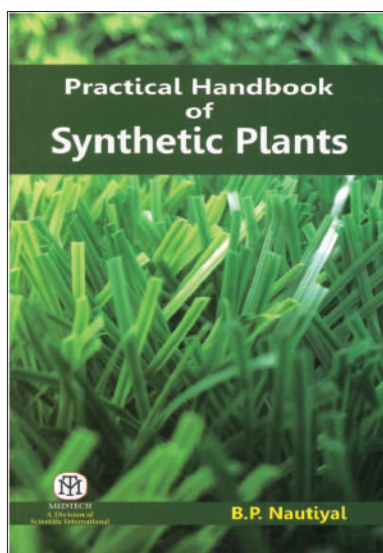
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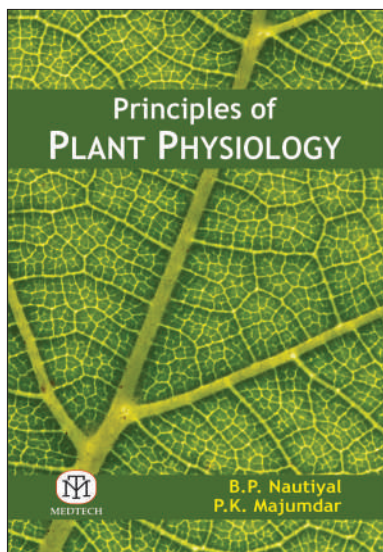
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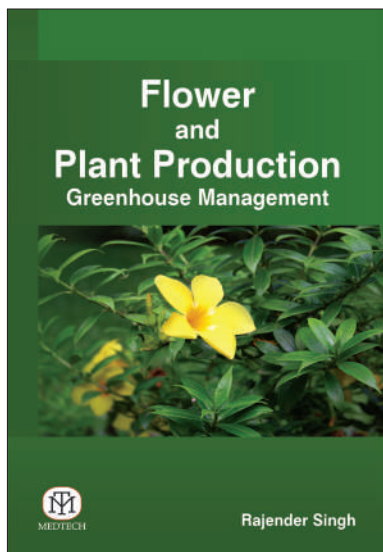
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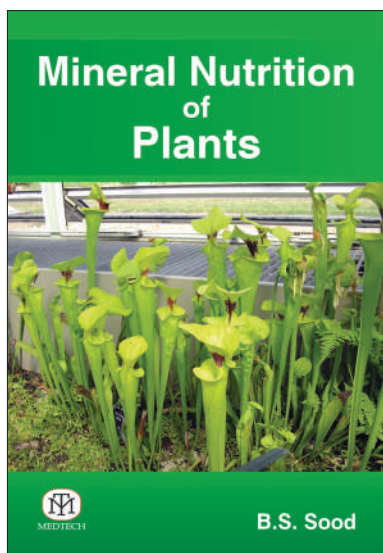
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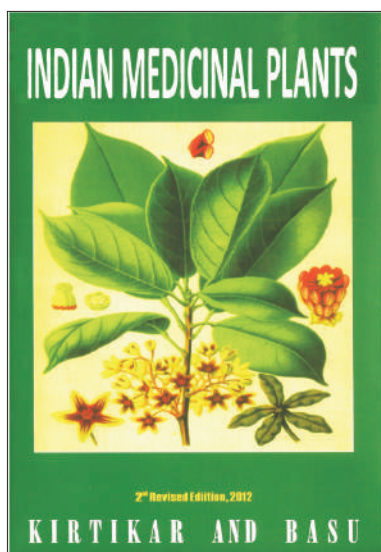
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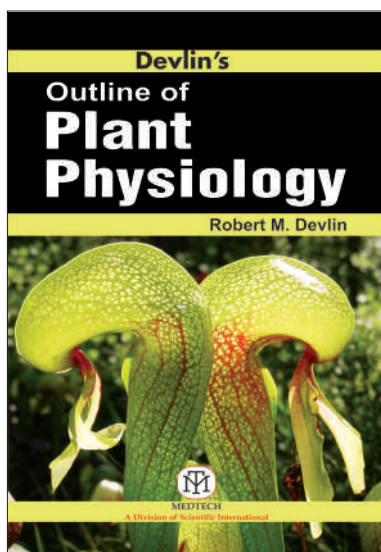
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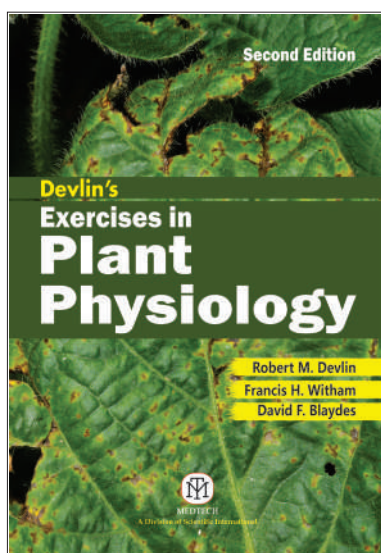
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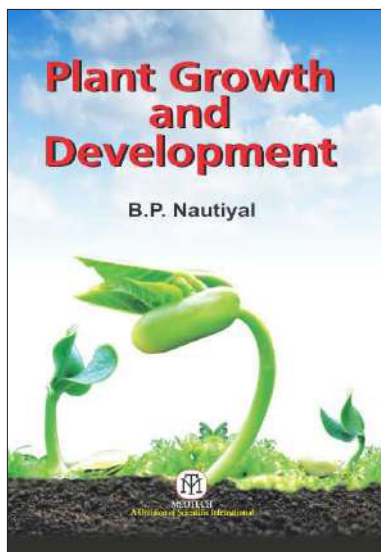
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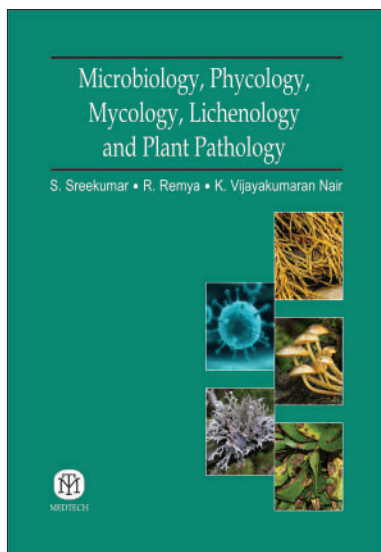
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BP Nautiyal

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Part II Growth: Auxins ♦ Gibberellins ♦ Kinins ♦ Inhibitors ♦ Differential Growth
Part III Development : Juvenility ♦ Senescence ♦ Flowering ♦ Flower Physiology ♦ Fruit Set ♦ Fruit Growth ♦ Fruit Ripening ♦ Tuber and Bulb Formation ♦ Dormancy
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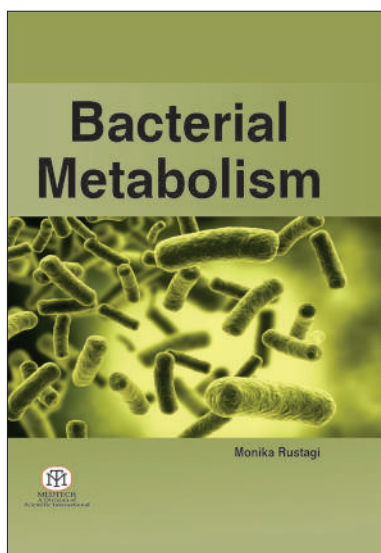
Microbiology, Phycology, Mycology, Lichenology and Plant Pathology

S Sreekumar • R Remya • K Vijayakumaran Nair

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Part III: Mycology
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 ♦ Ascomycotina ♦ Basidiomycotina ♦ Deuteromycotina
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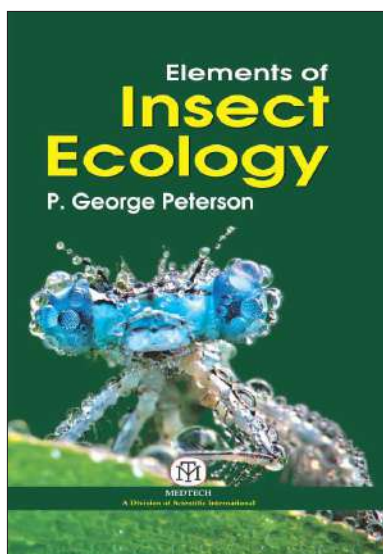
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Monika Rustagi

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 ♦ Aerobic Growth of *Escherichia coli* on Substrates Other Than Glucose
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 ♦ Catabolic Activities of Aerobic Heterotrophs
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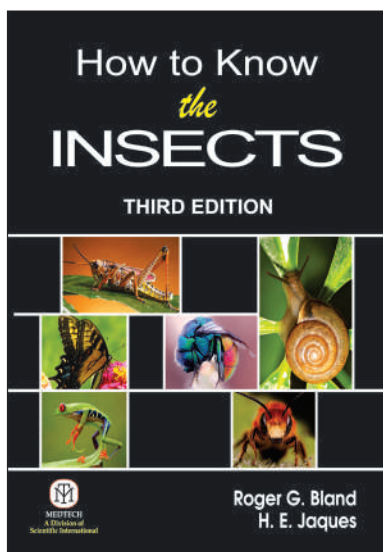
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Part-II Populations: Demography: Population Growth and Lifetables ♦ Strategies in Reproduction ♦ Population Dynamics ♦ Ecological Genetics ♦ Populations Under Insecticide Stress ♦ Biological Control

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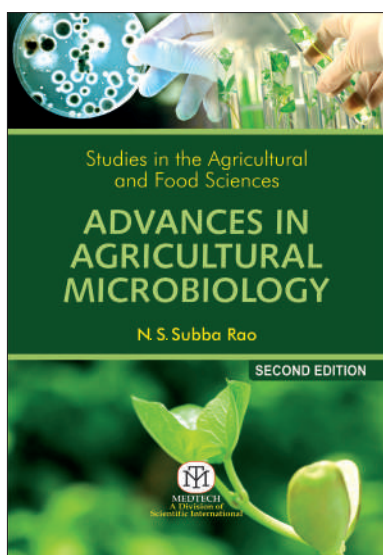
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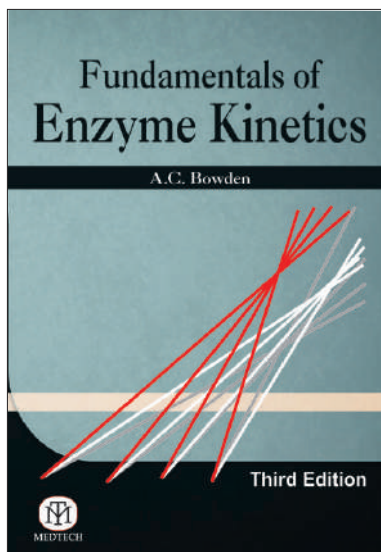
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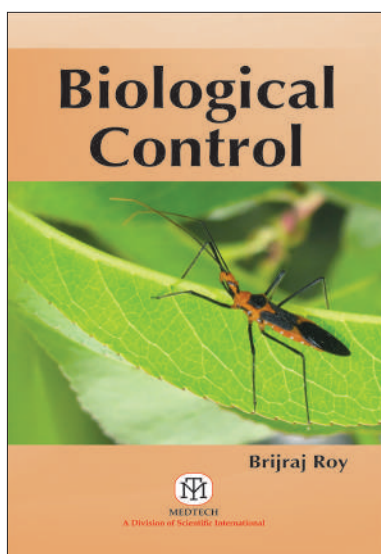
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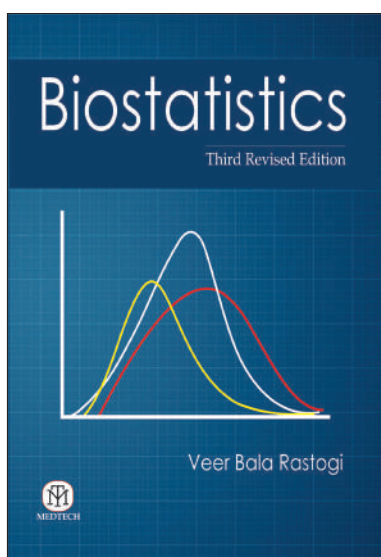


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Brijraj Roy

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- ♦ Entomophagous Insects
- ♦ Procedures in Enemy Introduction
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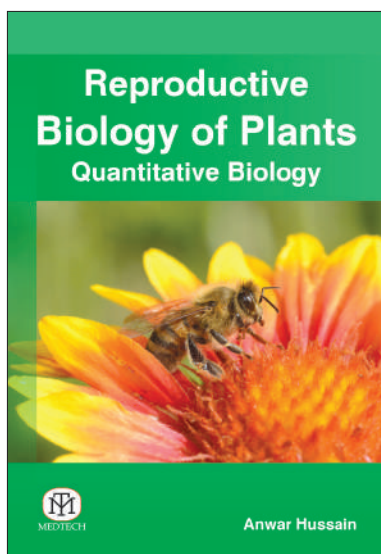
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- ♦ Organisation and Classification of Data
- ♦ Frequency Distribution ♦ Representation of Data
- ♦ Measures of Central Tendency ♦ Measures of Location or Averages of Partition Values
- ♦ Measures of Variability or Dispersion ♦ Probability ♦ Set Theory and Venn Diagram
- ♦ Probability Distribution: Normal Distribution
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- ♦ Inferential Statistics, Hypothesis Testing and Test of Significance
- ♦ Nonparametric or Distributionfree Statistical Tests ♦ Correlation ♦ Regression
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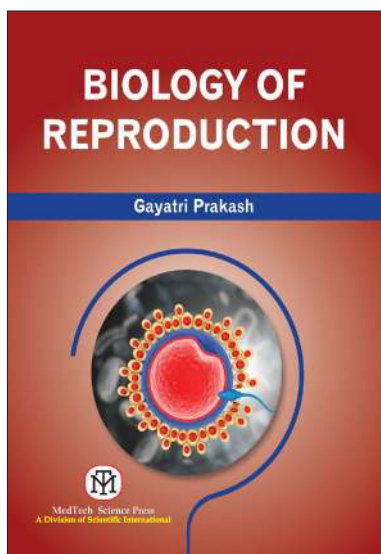
Reproductive Biology of Plants (Quantitative Biology)

Anwar Hussain

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♦ 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

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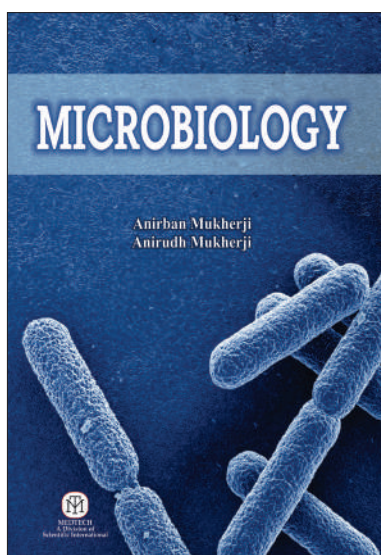
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Gayatri Prakash

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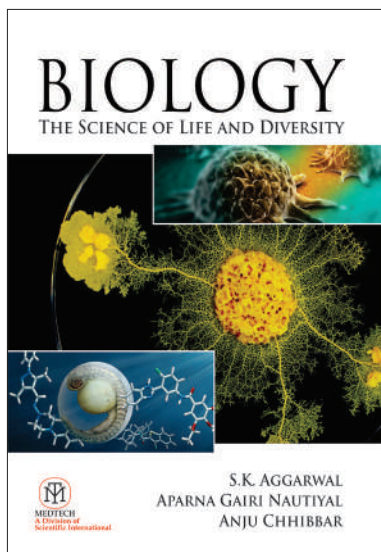
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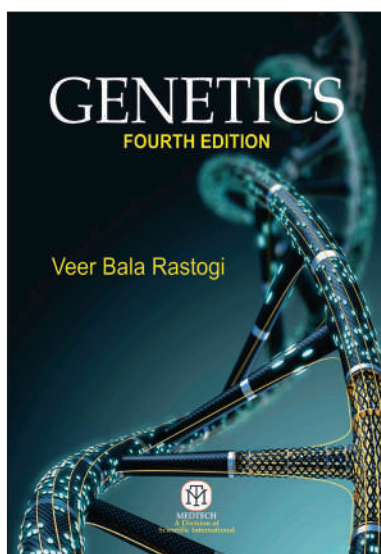
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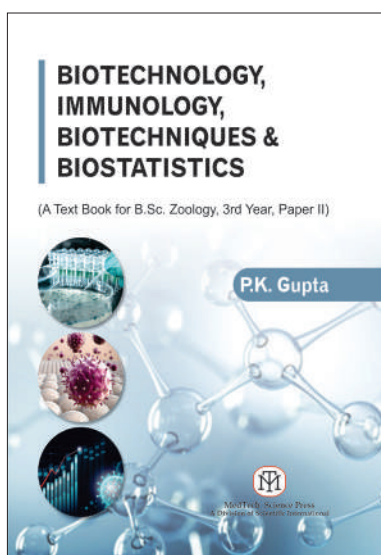
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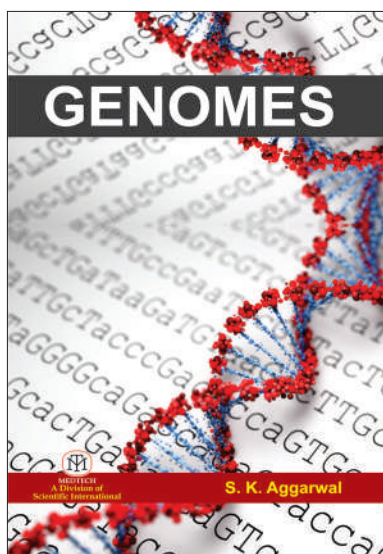
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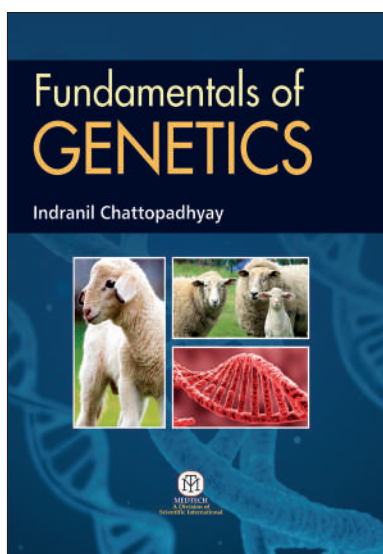
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Indranil Chattopadhyay

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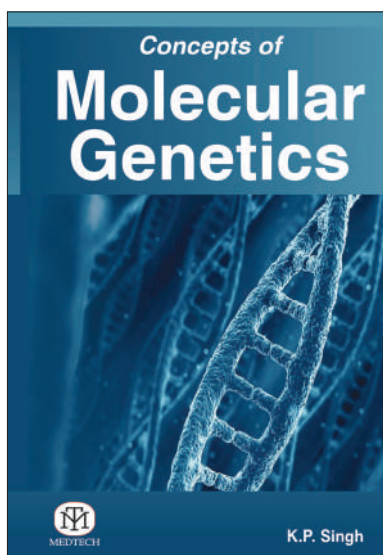
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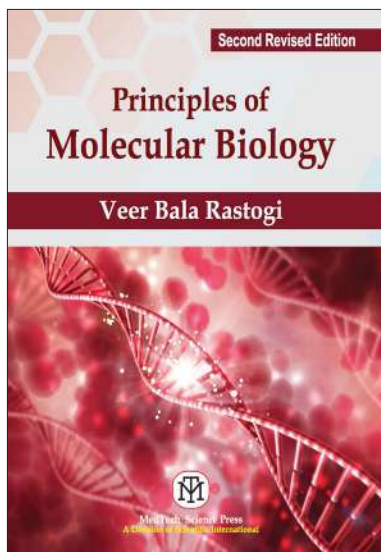
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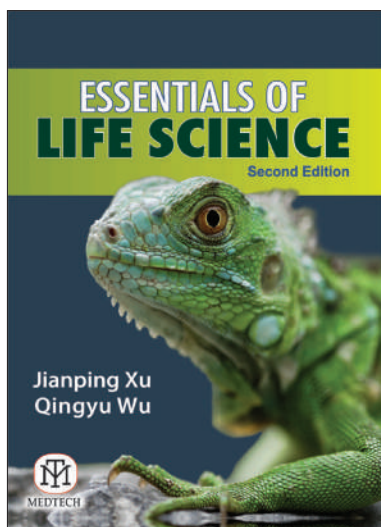
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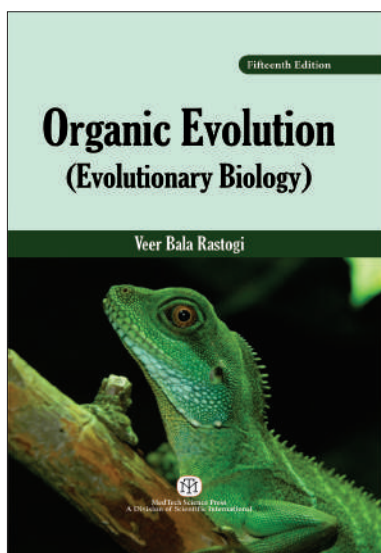
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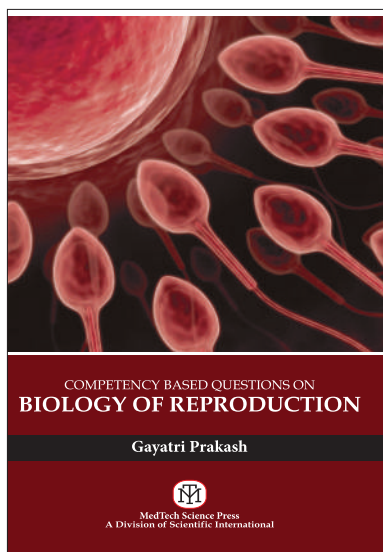
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Gayatri Prakash

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- ◆ The Reproductive Cycles ◆ Ovulation and Fertilization ◆ Implantation and Pregnancy ◆ Parturition and Lactation

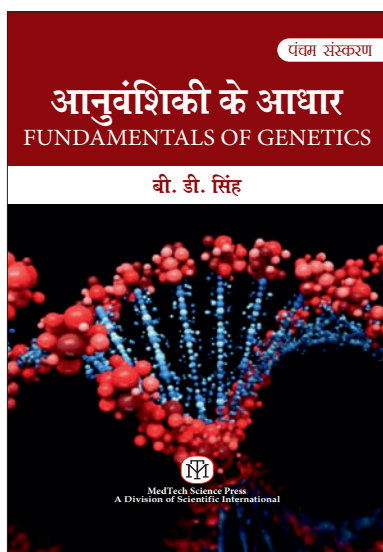
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- ◆ Infertility ◆ Assisted Reproductive Technologies ◆ Contraception and Family Planning
- ◆ Abortion and Medical Termination of Pregnancy ◆ Demographic Terminologies and Family Planning
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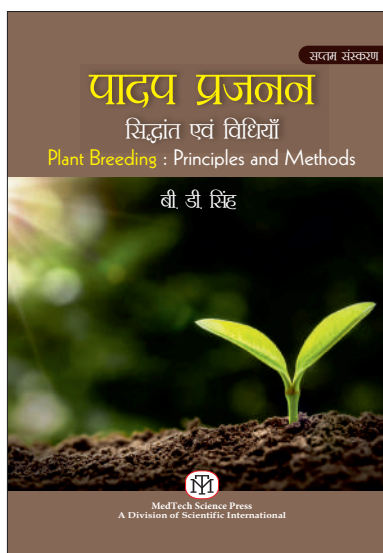
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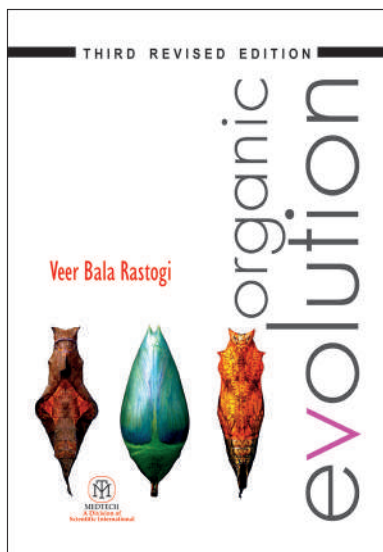
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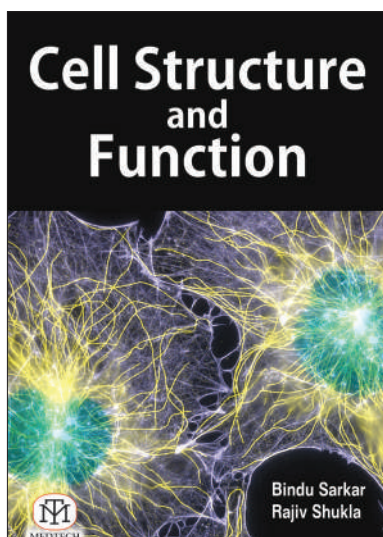
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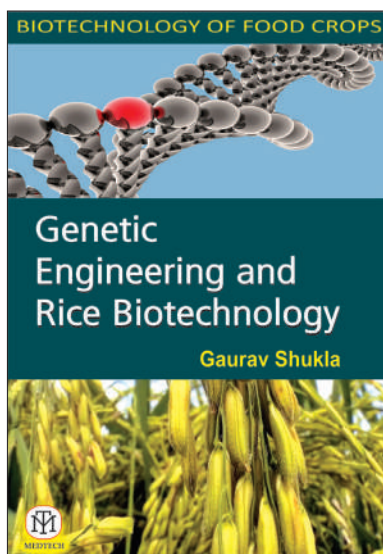
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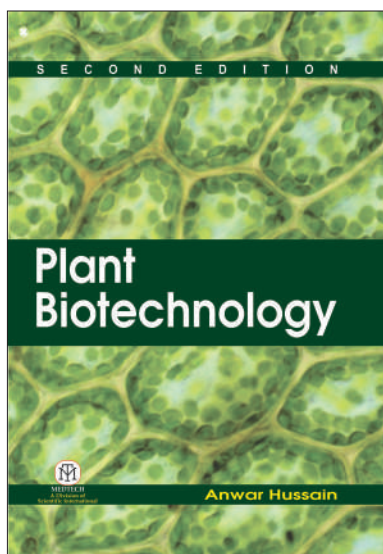
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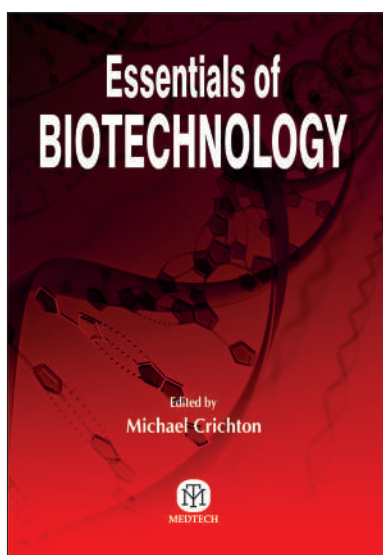
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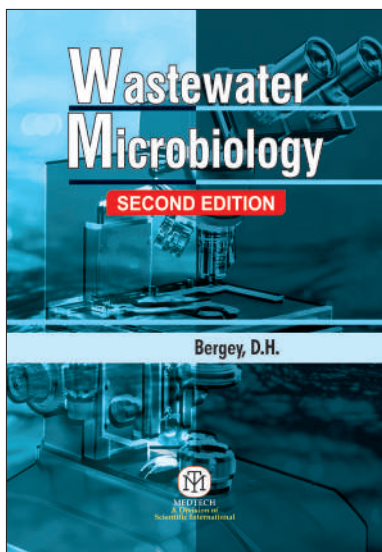
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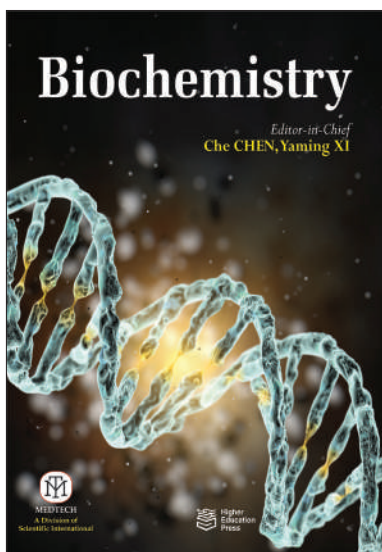
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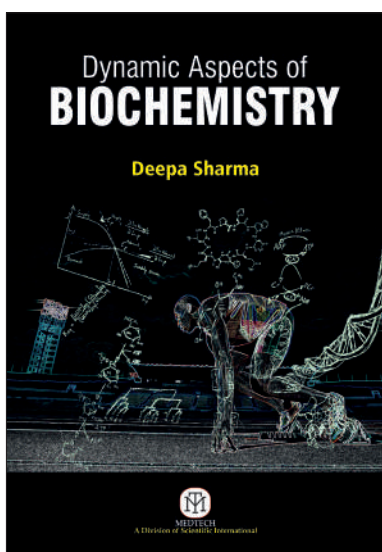
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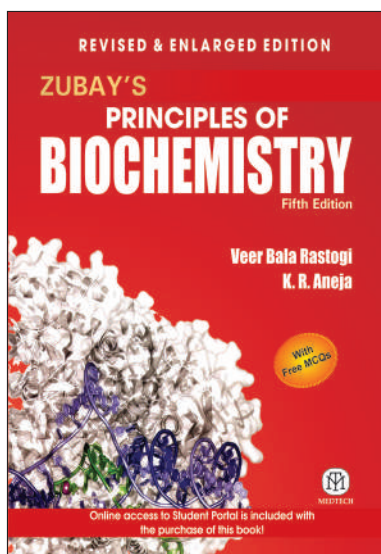
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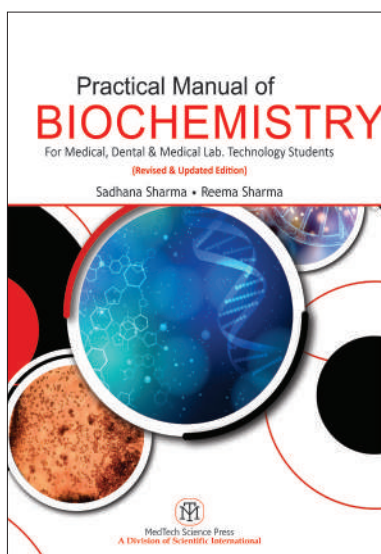
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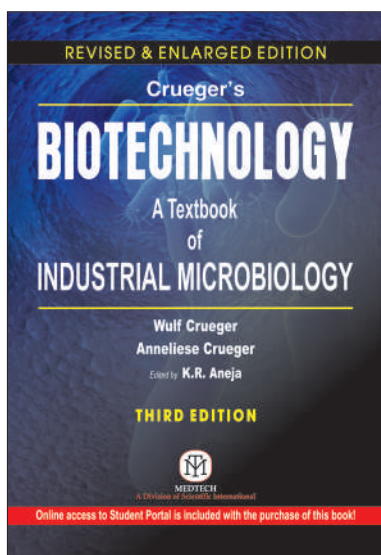
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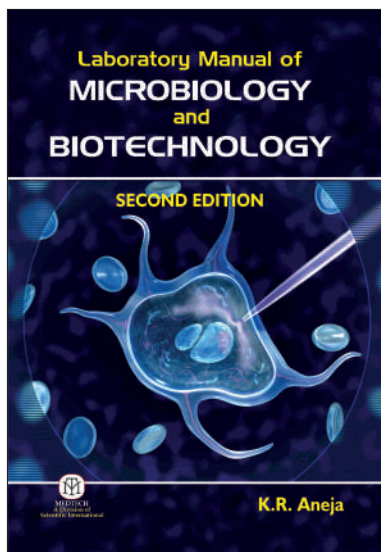
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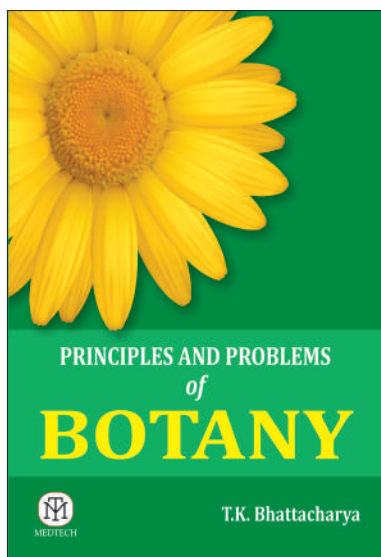
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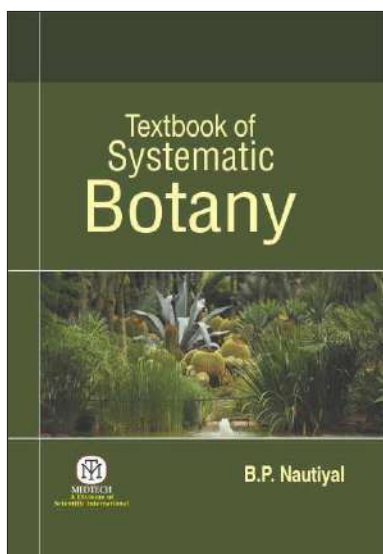
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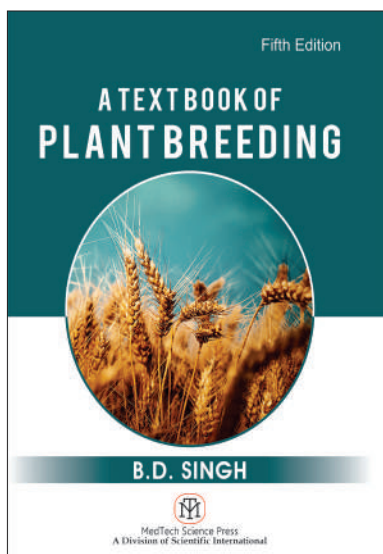
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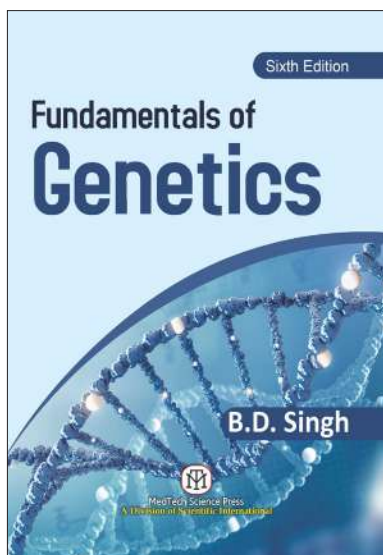
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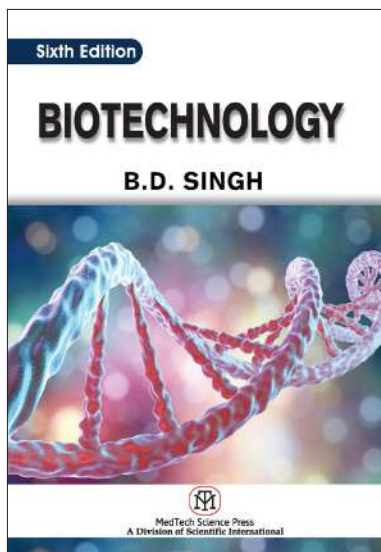
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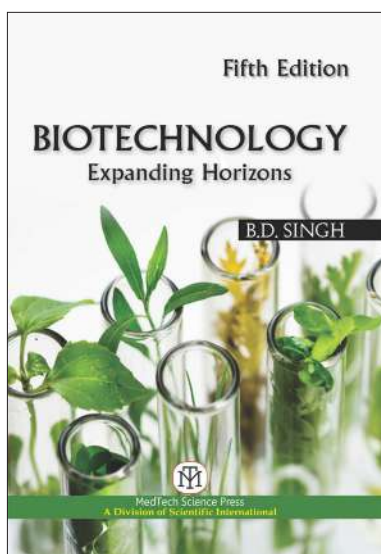
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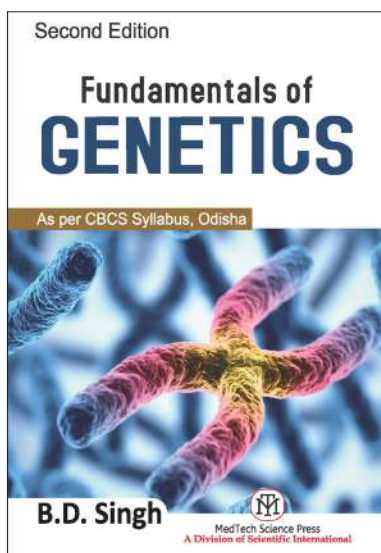
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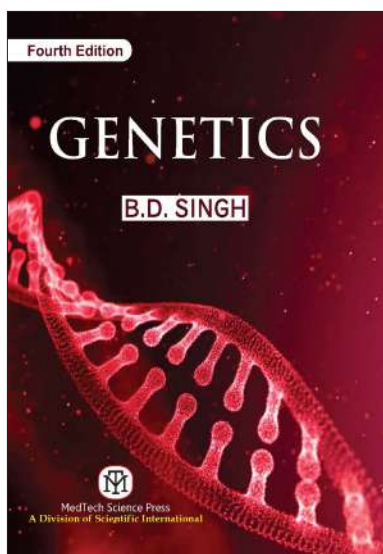
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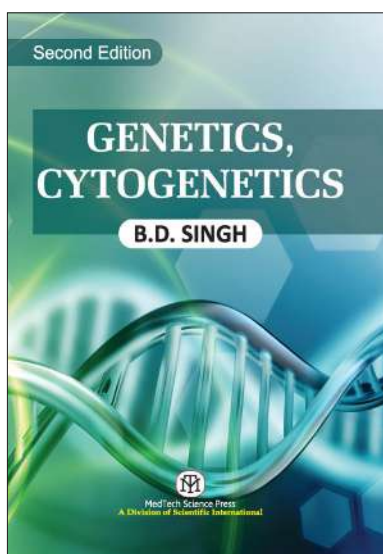
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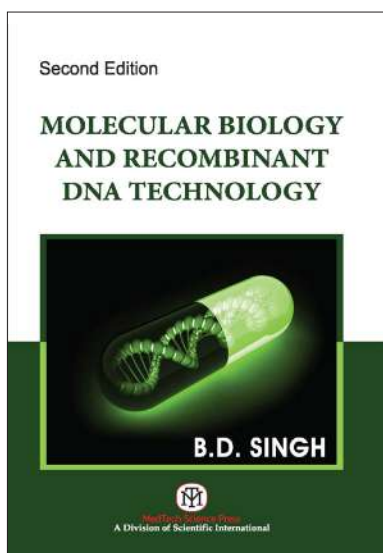
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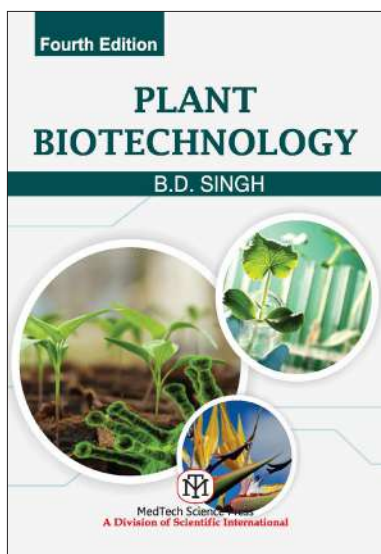
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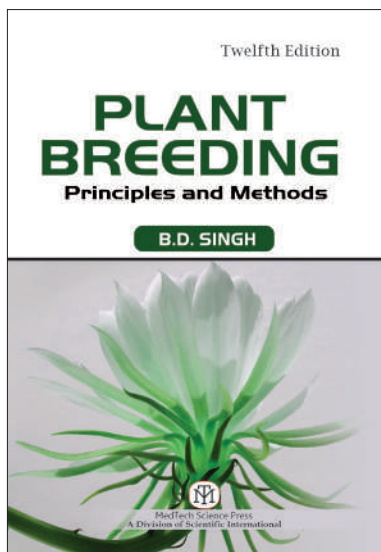
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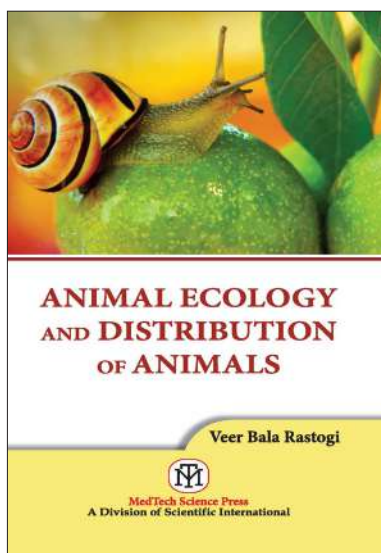
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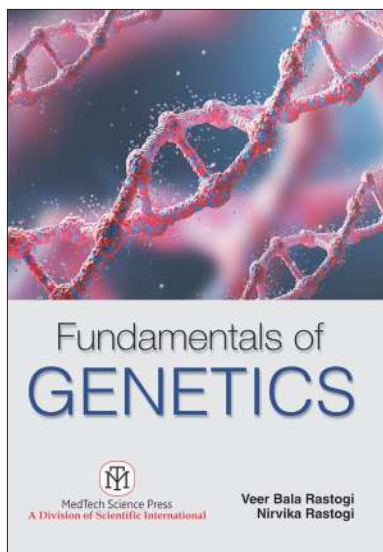
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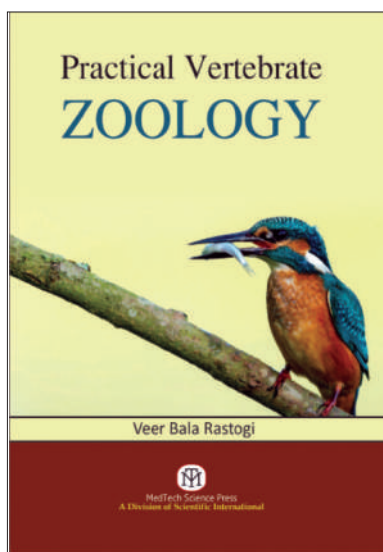
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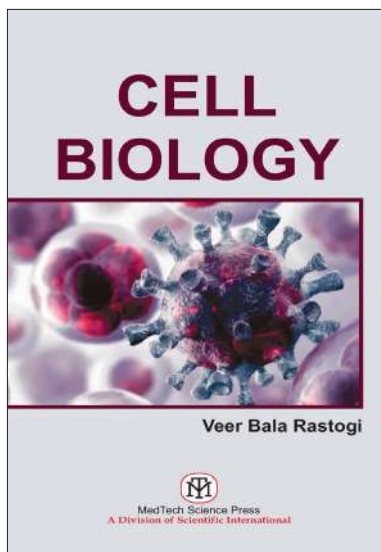
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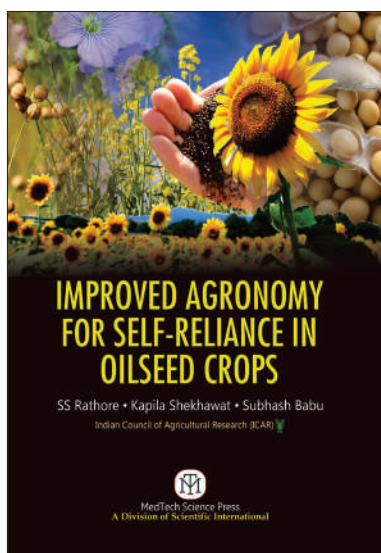
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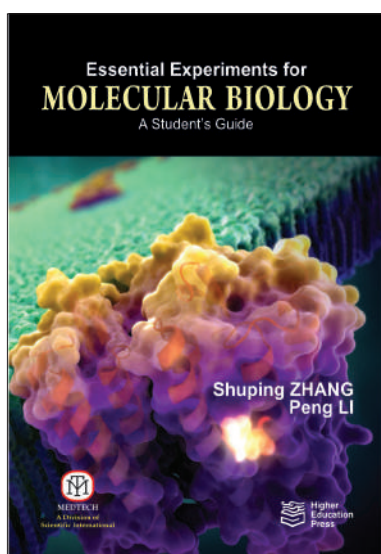
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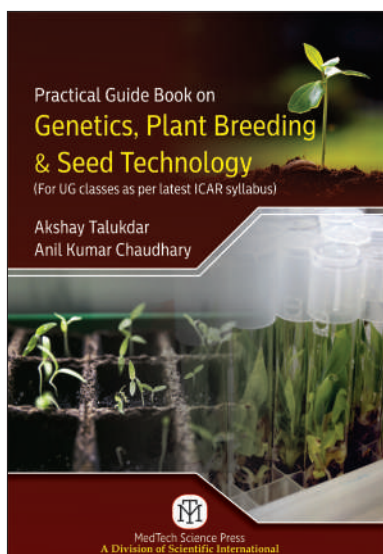
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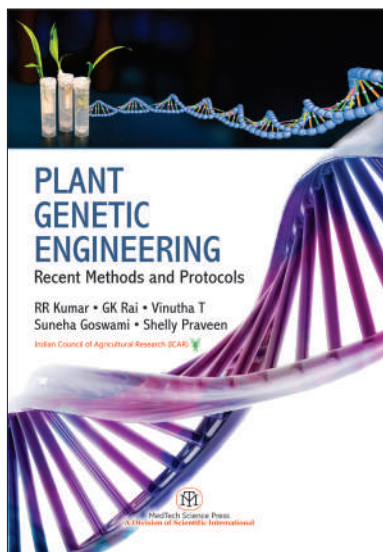
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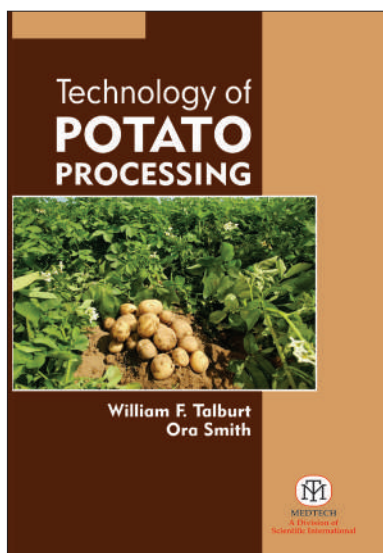
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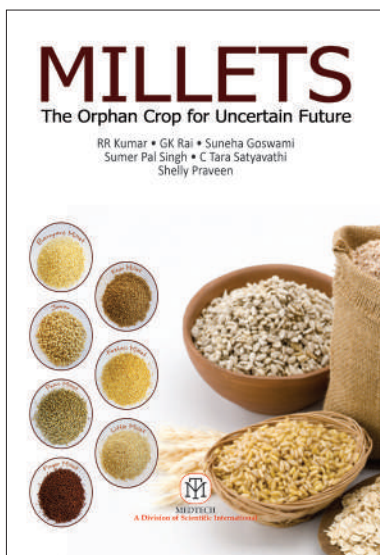
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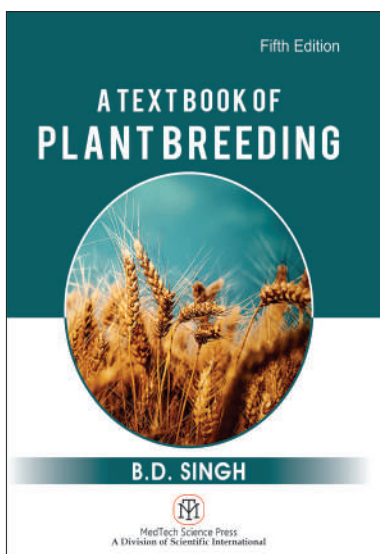
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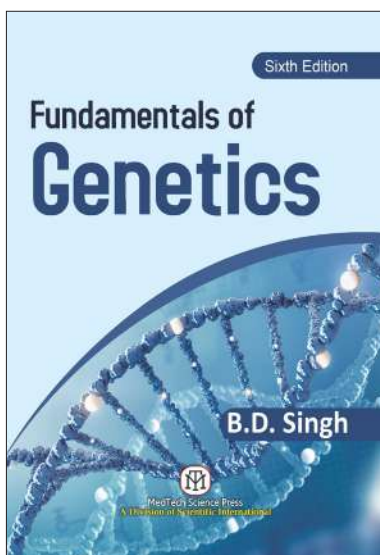
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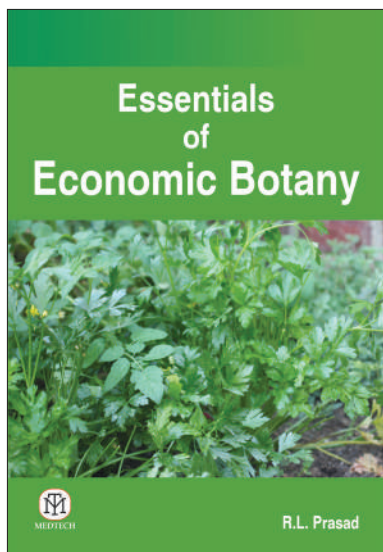
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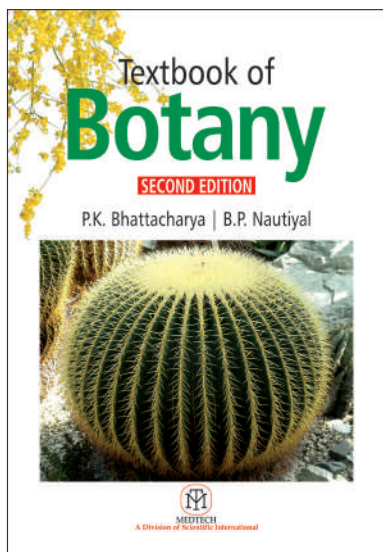
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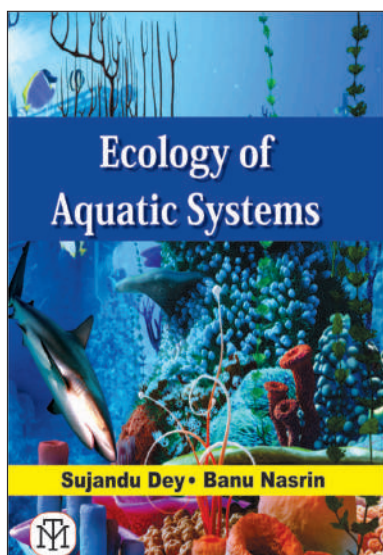
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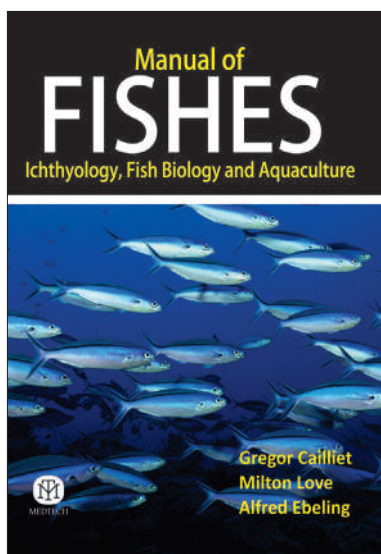
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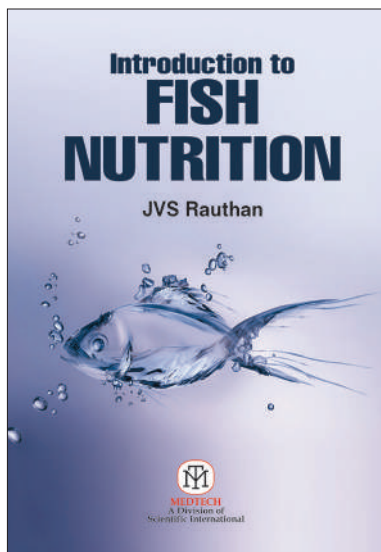
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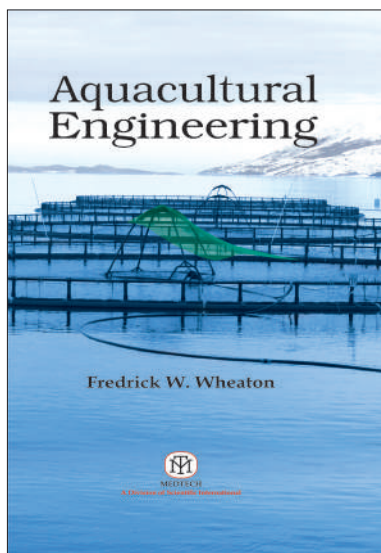
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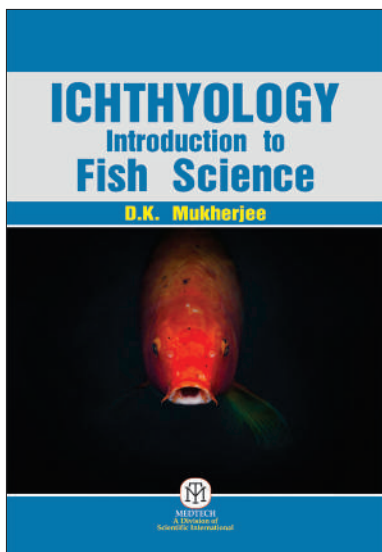
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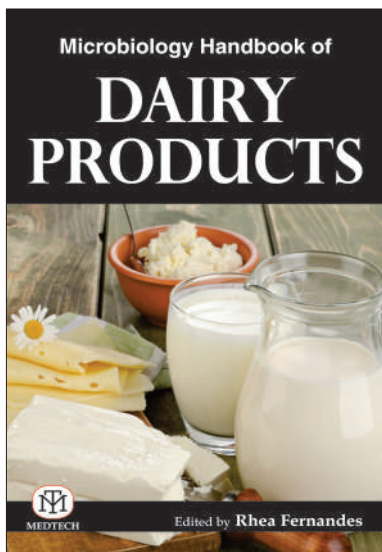


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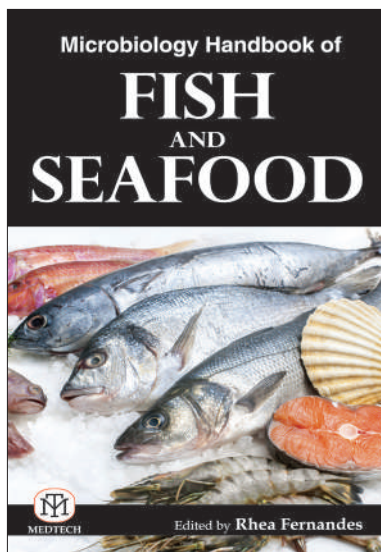
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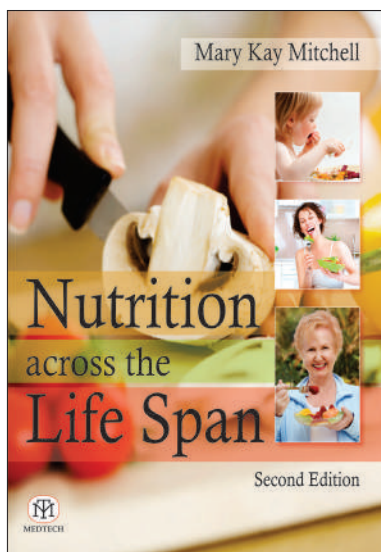
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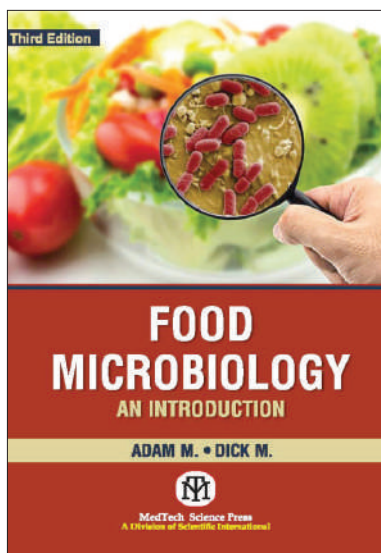
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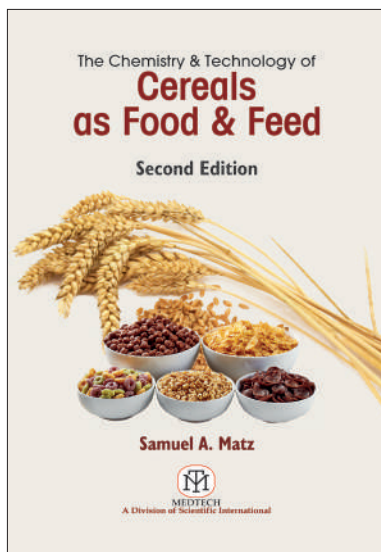
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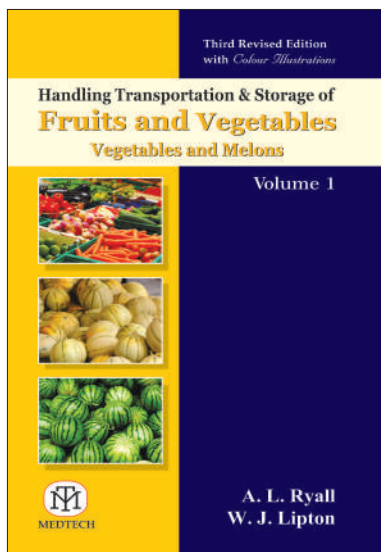
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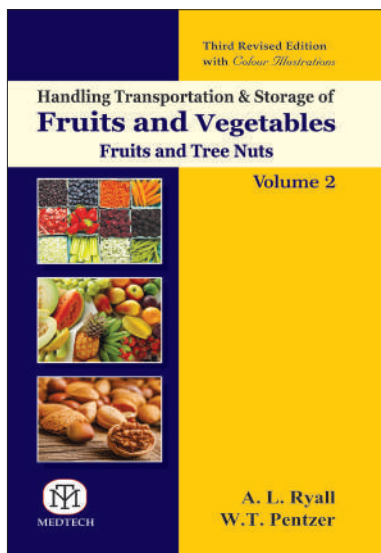
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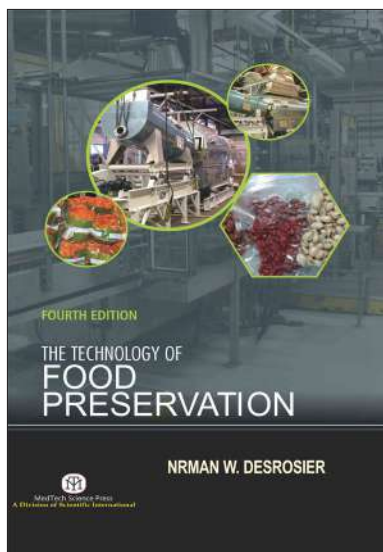
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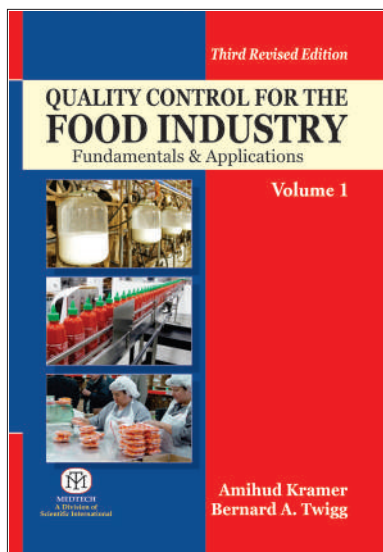
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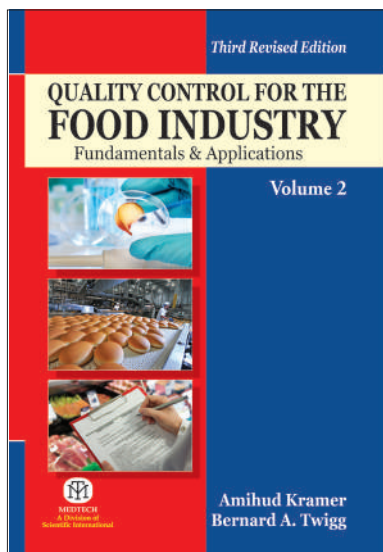
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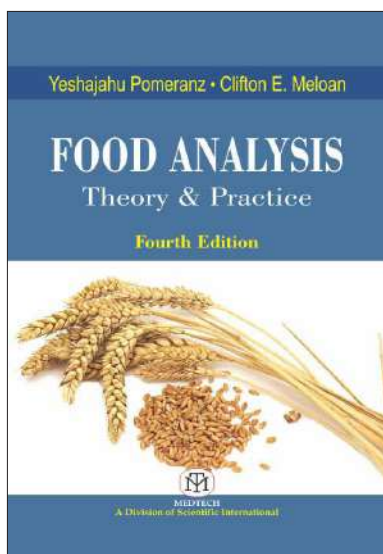
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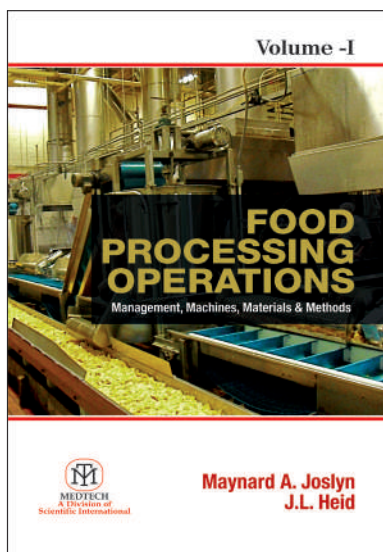
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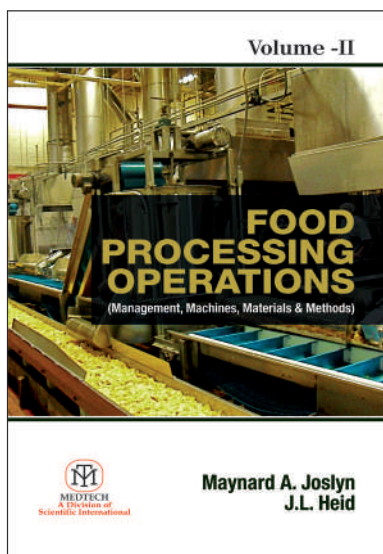
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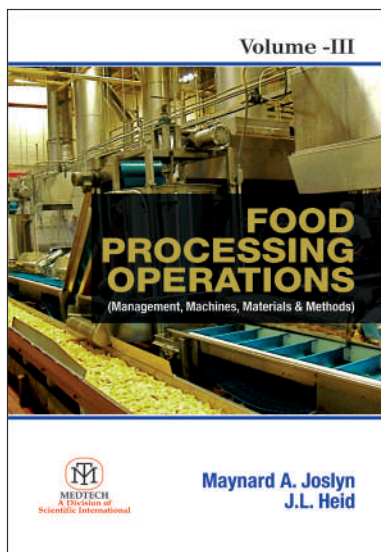
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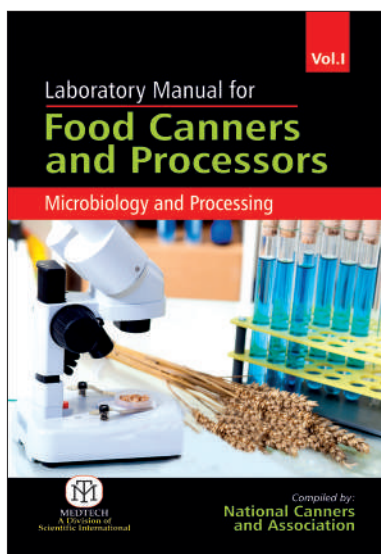
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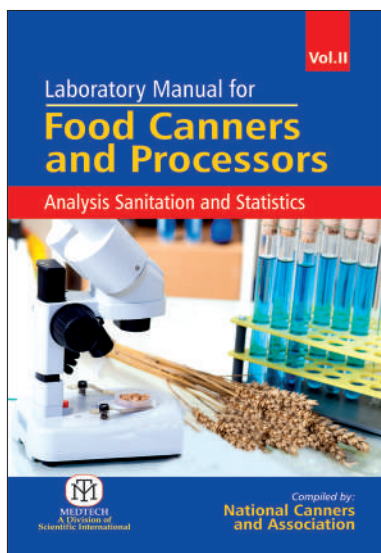
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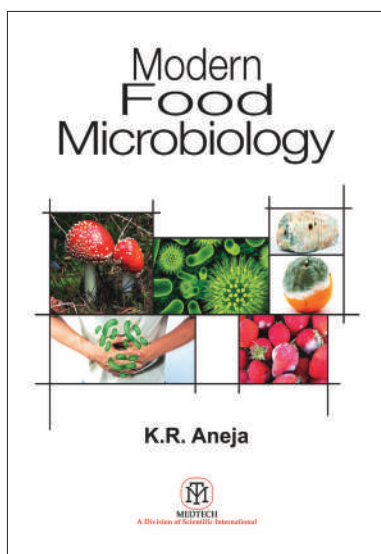
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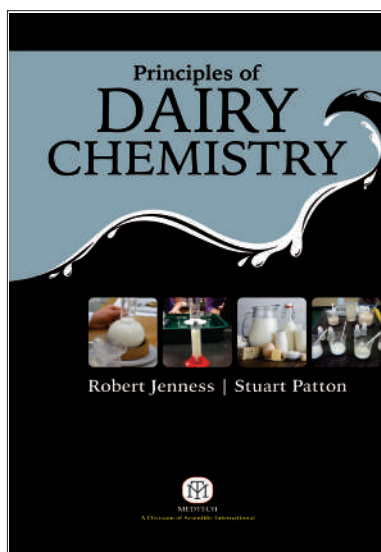
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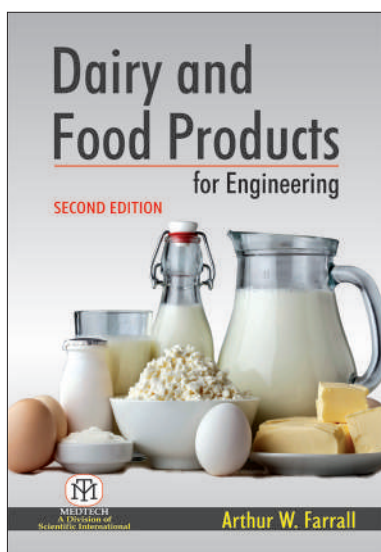
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♦ Milk Salts
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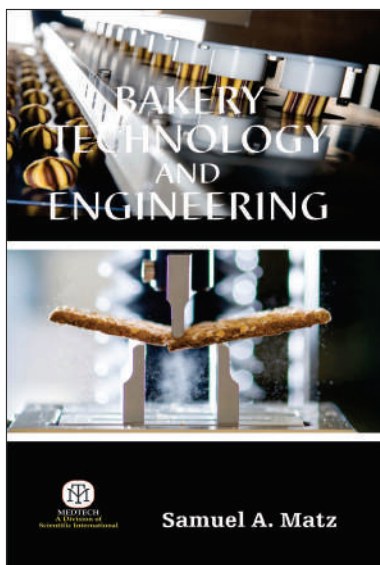
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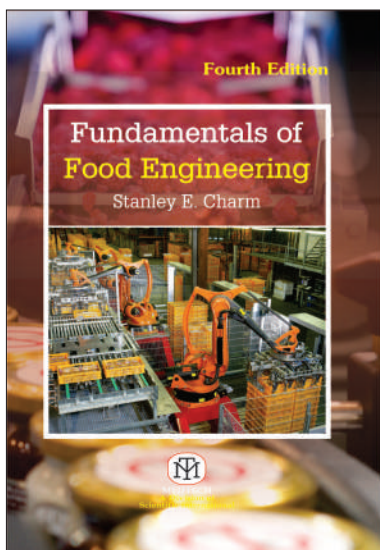
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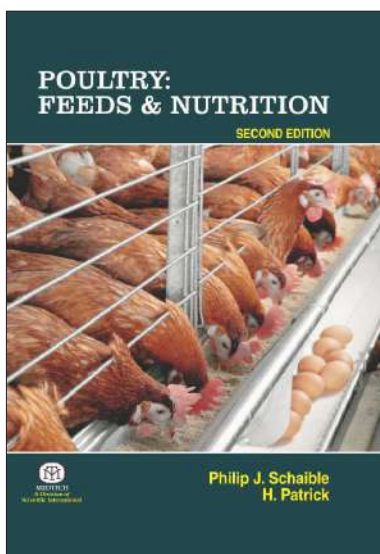
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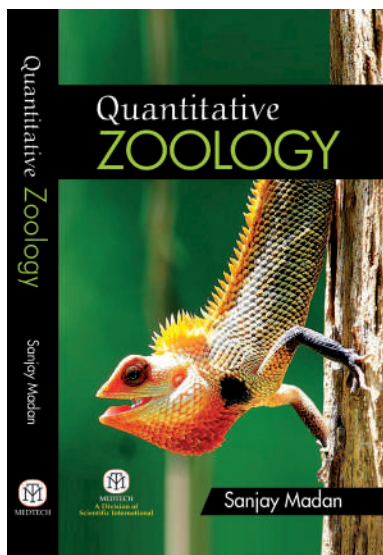
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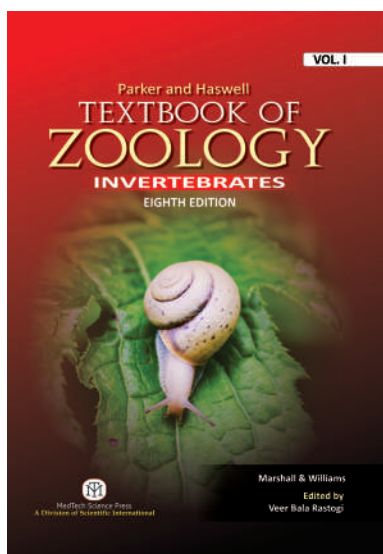
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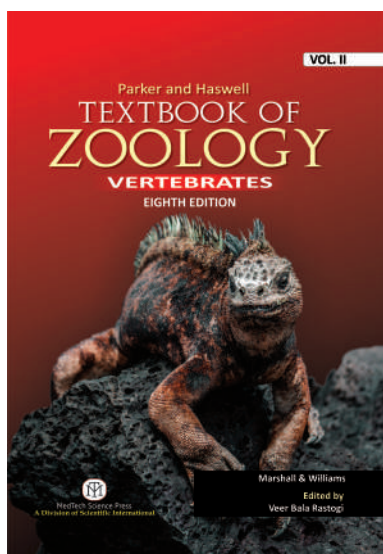
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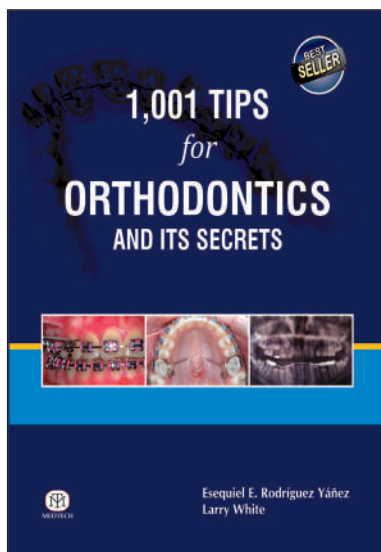
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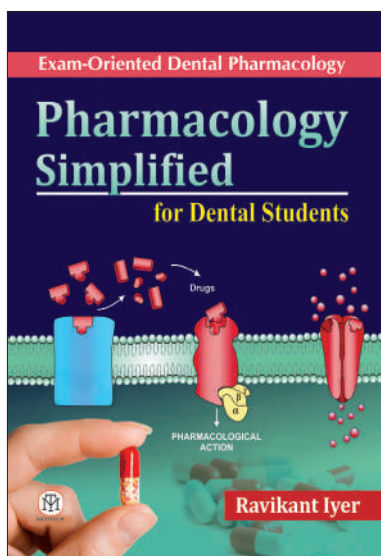
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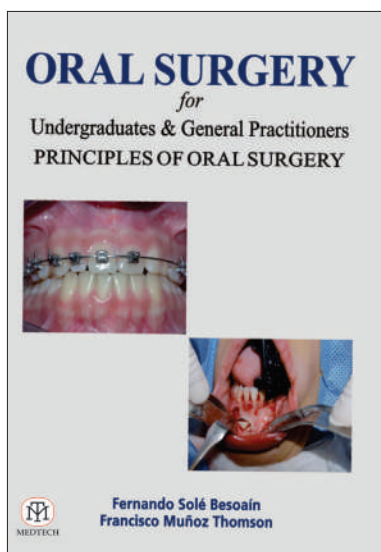
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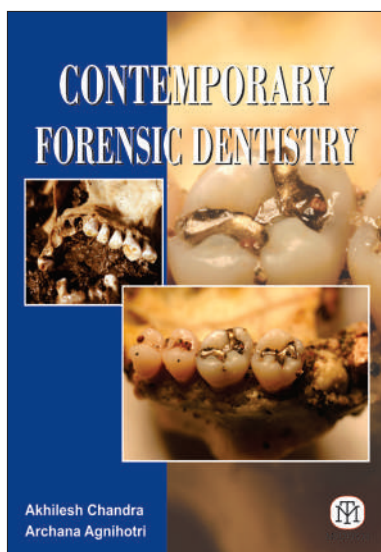
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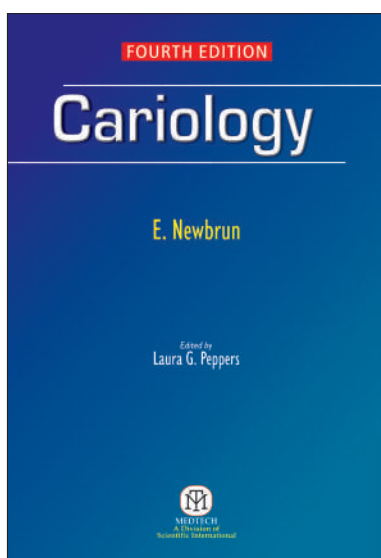
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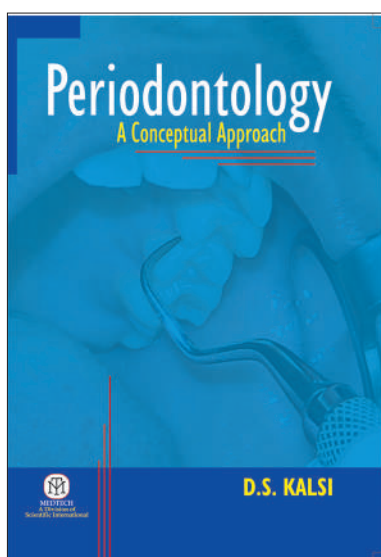
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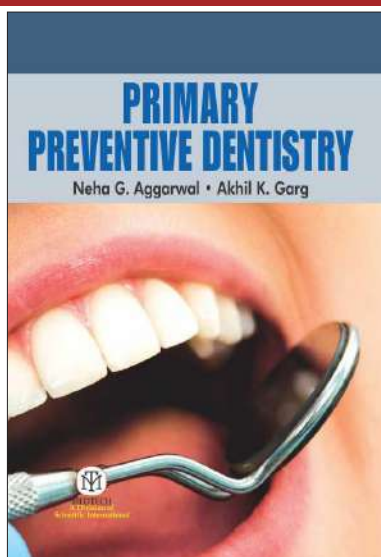
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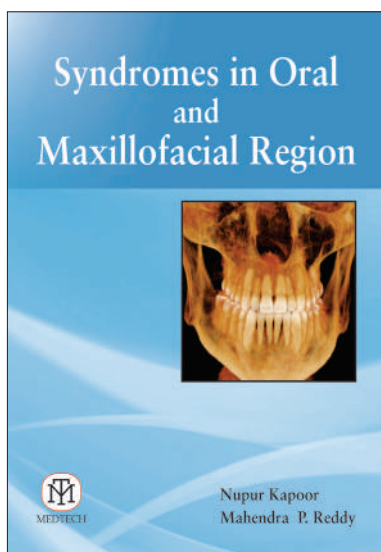
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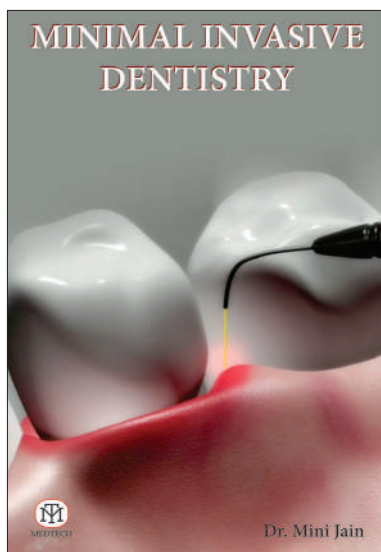
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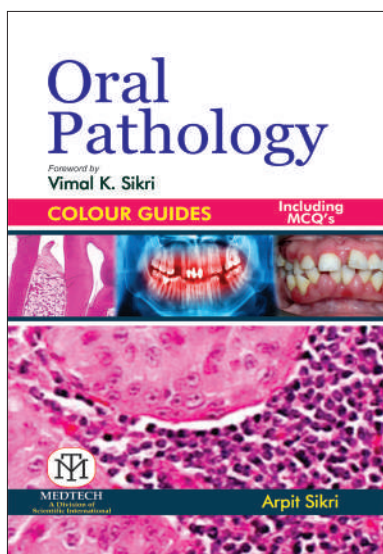
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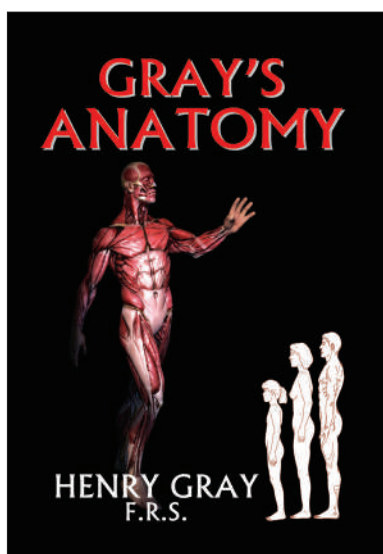
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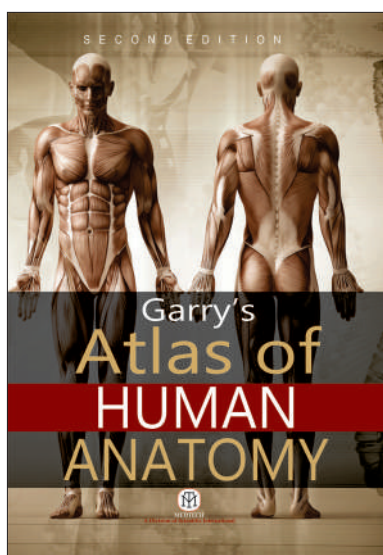
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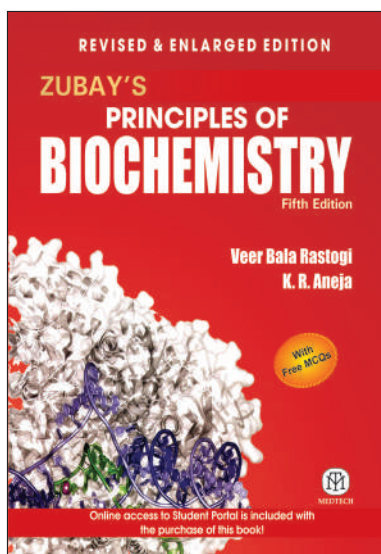
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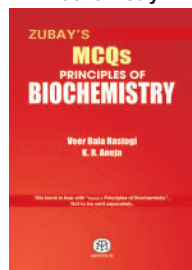
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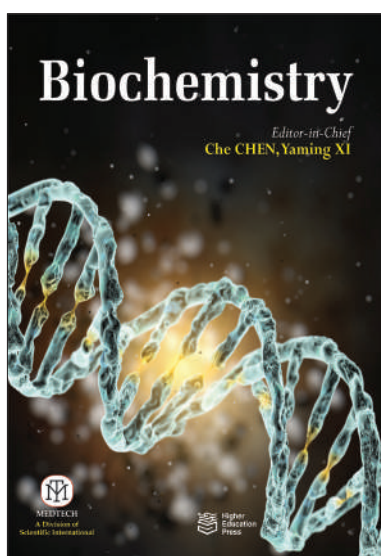
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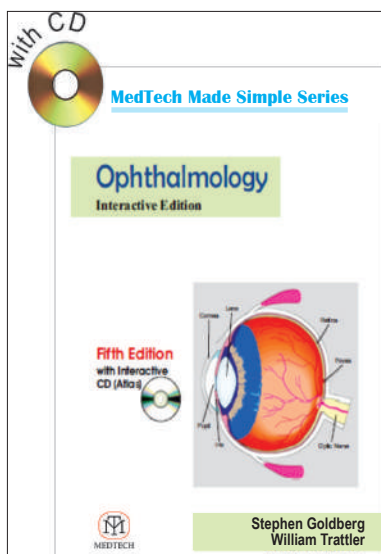
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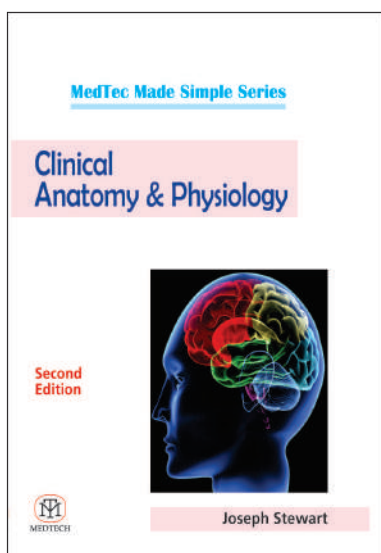
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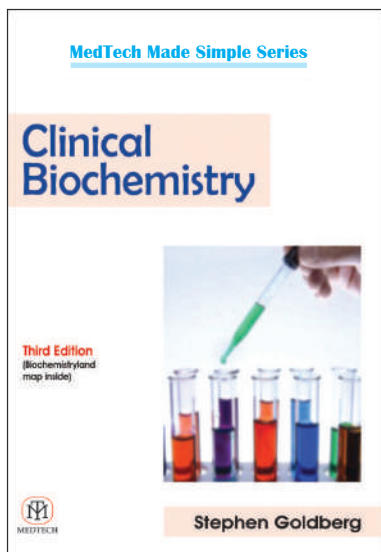
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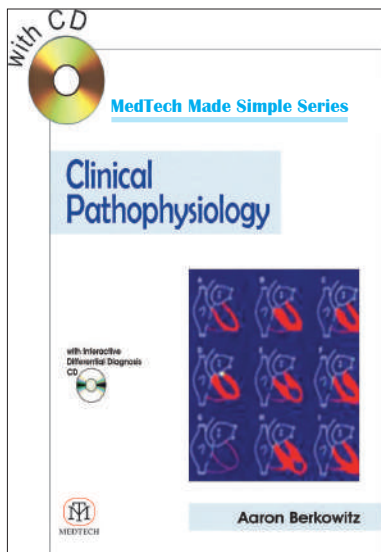
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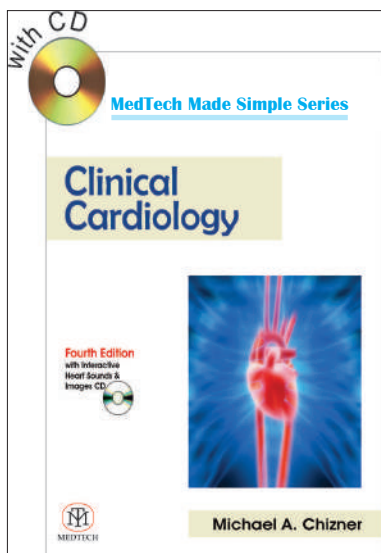
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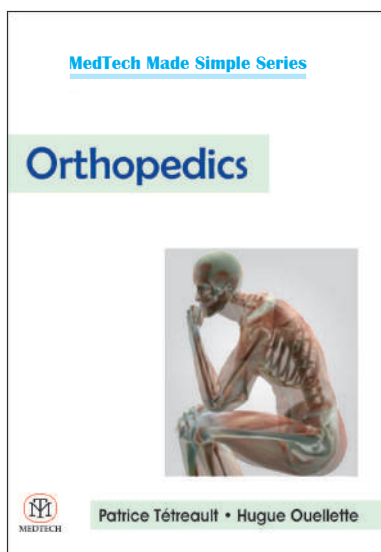
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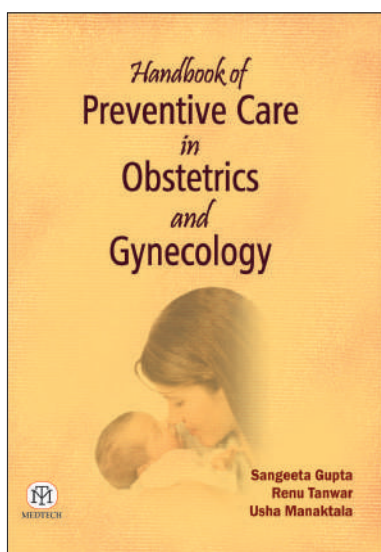
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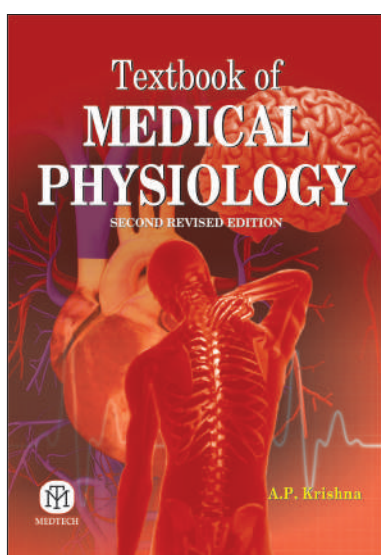
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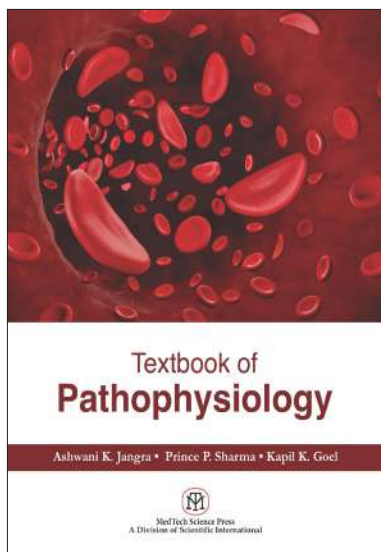
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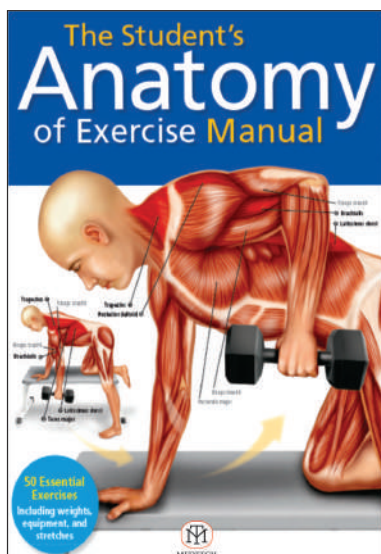
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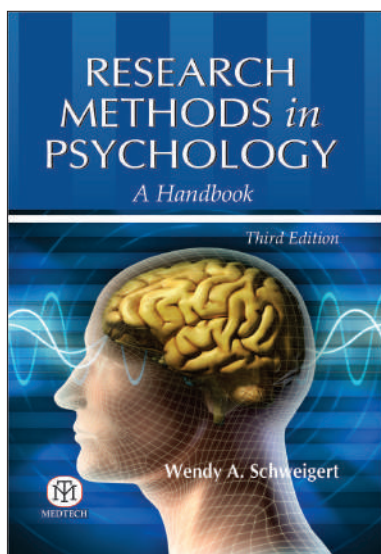
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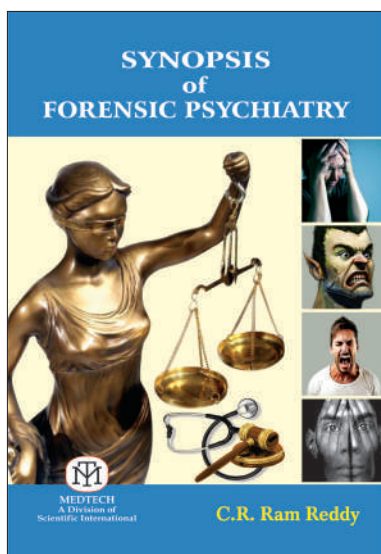
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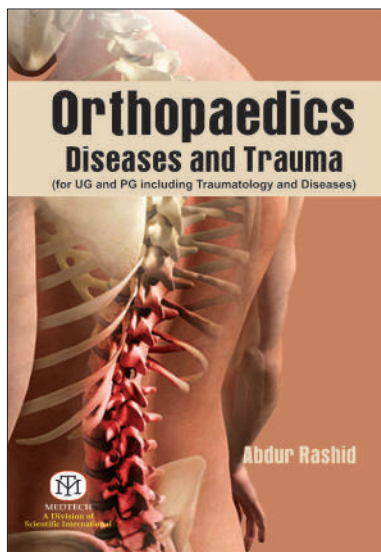
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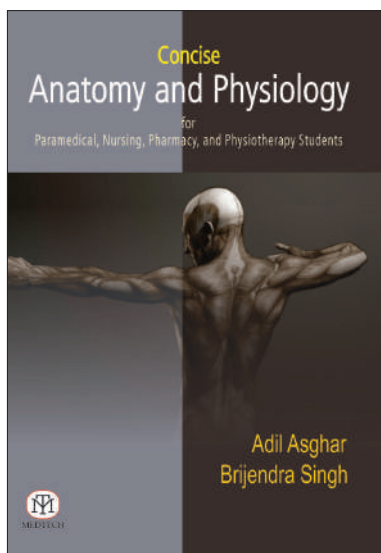
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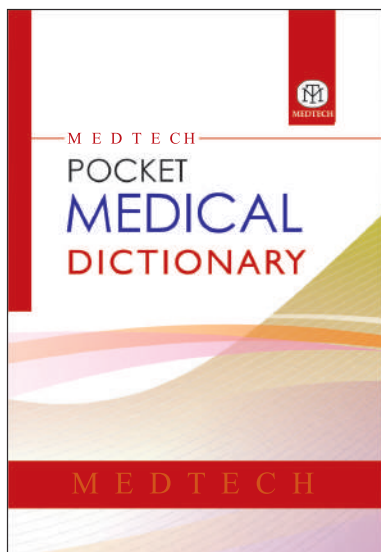
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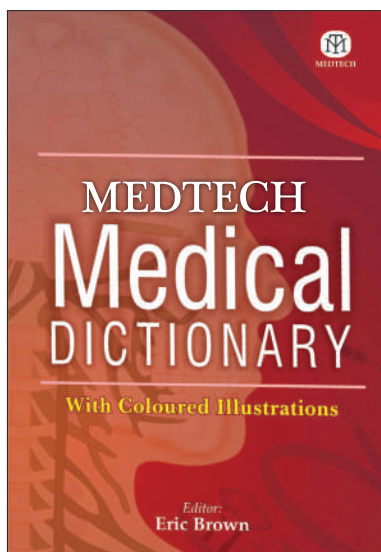
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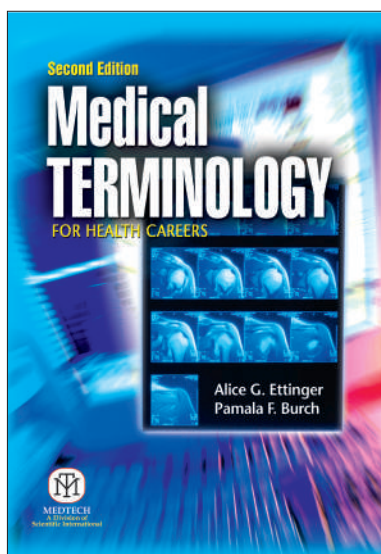
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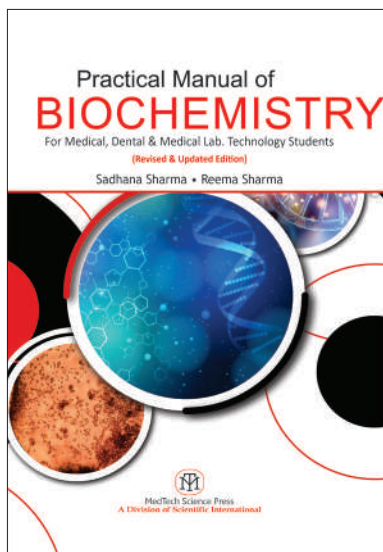
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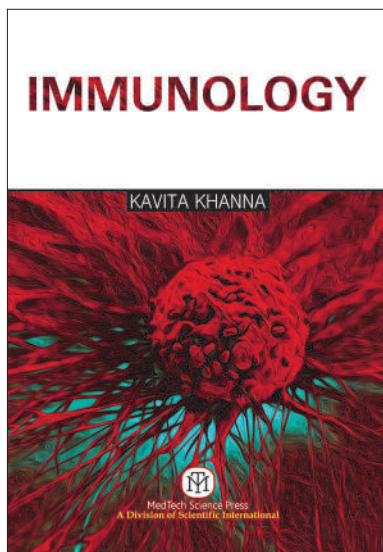
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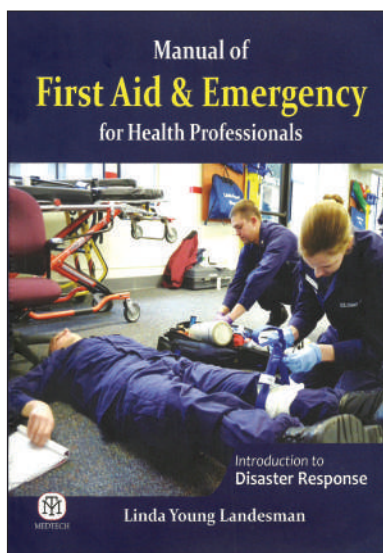
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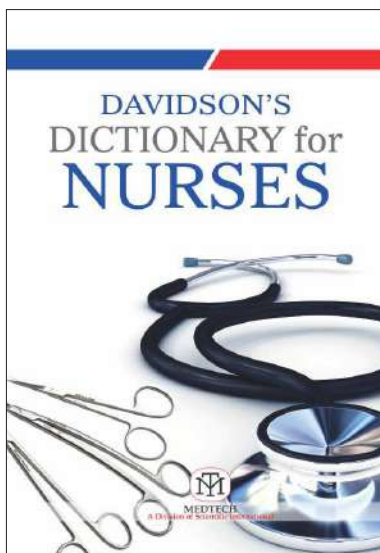
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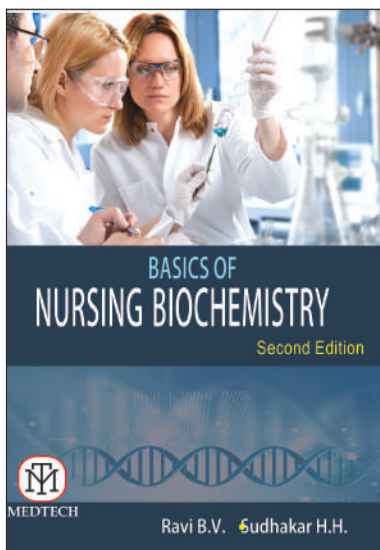


DAVIDSON'S Dictionary for Nurses



This book Davidson's Dictionary for Nurses, prepared for nurses This edition is prepared of the nursing council students to understand the terms easily The definitions were chosen with nurses in active practice and student of nurses chiefly in mind The unique feature of this dictionary is that it is not an abbreviated medical dictionary; it was designed especially for nurses The constantly expanding role of the professional nurse and the accompanying increase in nursing functions, activities, and responsibilities require that a reference source meet the needs created by these changes Consequently, the entire reflects extensive research in current literature, both textbooks and periodicals, in addition to conferences with many nurses in active practice We are thankful to many nurse associated and authorities who gave valuable help and advice It is our hope that this edition will prove to be a useful companion and tool for student and practicing nurses and their co-workers in the field of nursing

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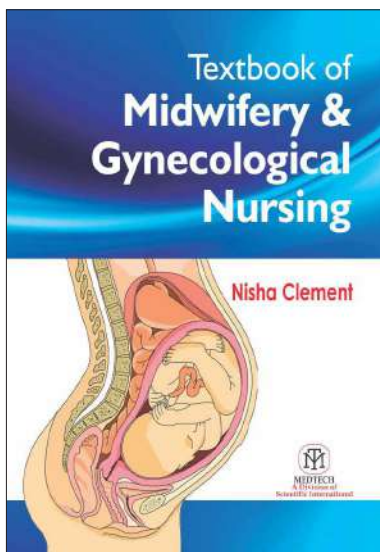
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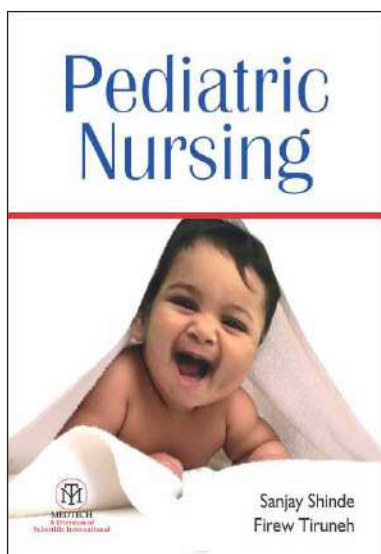
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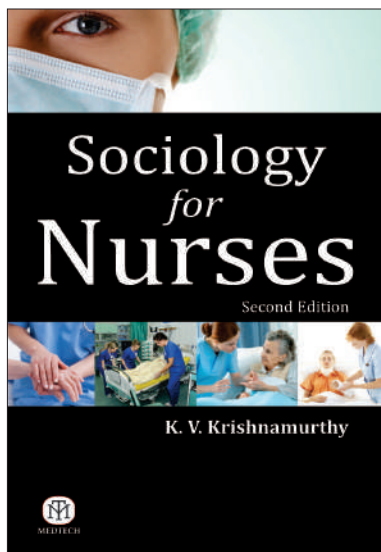
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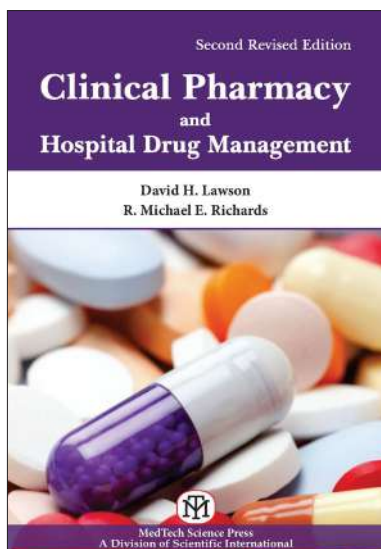
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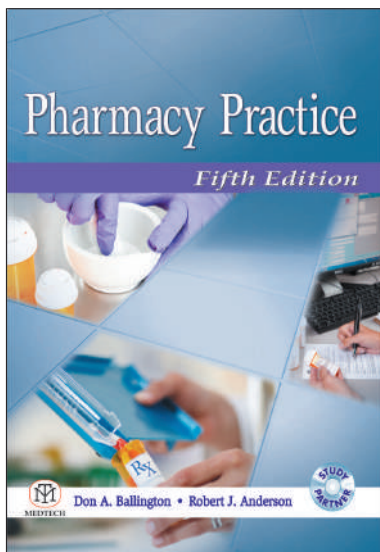
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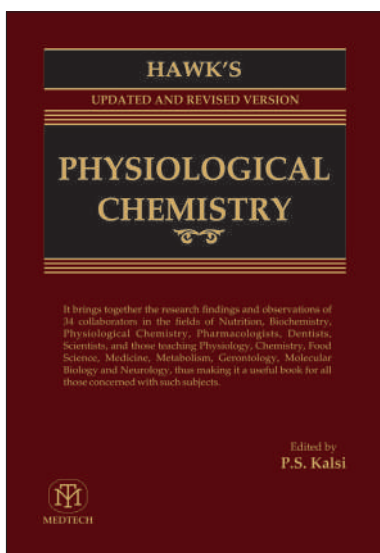
Essentials of Pharmacology

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

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Hawk's Physiological Chemistry

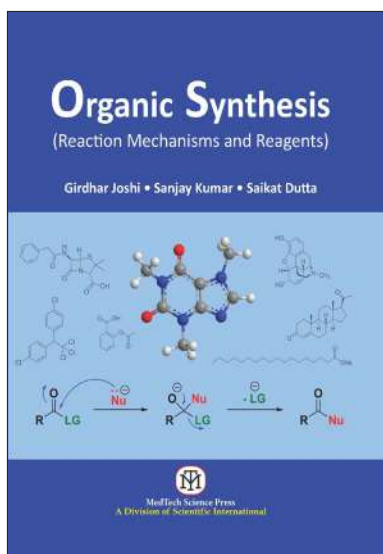
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14th Edition

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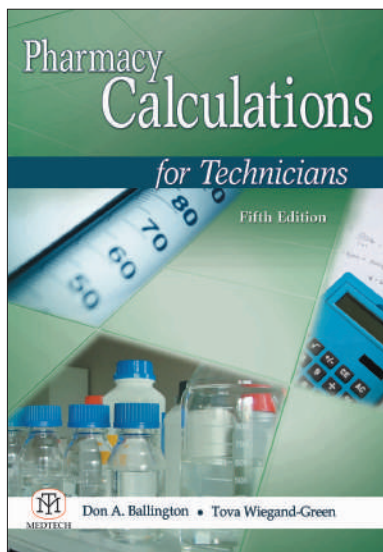
Organic Synthesis (Reaction Mechanisms and Reagents)

Girdhar Joshi • Sanjay Kumar • Saikat Dutta

Contents

- ♦ Formation of Carbon-Carbon Single Bonds via Enolate Anions
- ♦ Formation of Carbon-Carbon Single Bonds (I) (via Non-Transition Organometallic Reagents)
- ♦ Formation of Carbon-Carbon Single Bonds (II) (via Transition Metal Organometallic Reagents)
- ♦ Formation of Carbon-Carbon π -Bonds (The Olefination Reactions)
- ♦ Functional Group Transformations (I) (Oxidation Reactions of Organic Compounds)
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- ♦ Molecular Rearrangements and Selective Name Reactions
- ♦ Selectivity and Specificity in Chemical Reactions, and Protection of Some Functional Groups
- ♦ Index

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Pharmacy Calculations for Technicians

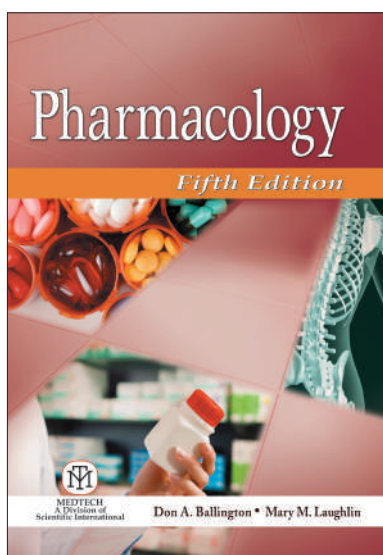
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- ♦ Preparing Injectable Medications
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- ♦ Understanding the Apothecary System
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Pharmacology

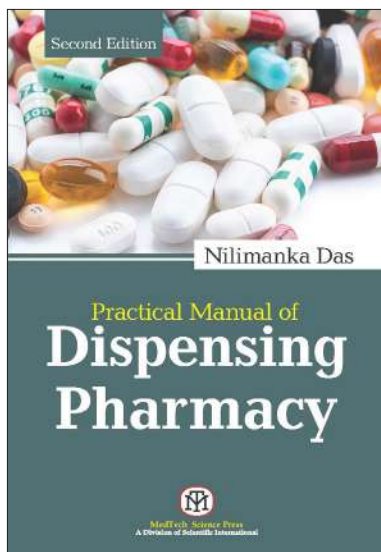
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- ♦ Drugs for Central Nervous System Disorders
- ♦ Respiratory Drugs
- ♦ Drugs for Gastrointestinal and Related Diseases ♦ Renal System Drugs
- ♦ Drugs for Cardiovascular Diseases ♦ Drugs for Muscle and Joint Disease and Pain
- ♦ Hormonal Disorders and Their Treatment ♦ Topical, Ophthalmic, and Otic Medications
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Nilimanka Das

2nd Edition

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♦ 100 ml of Chloroform Water IP ♦ 50 ml of Camphor Water IP ♦ 50 ml of Concentrated Peppermint Water BP ♦ 100 ml of Chloroform Spirit IP ♦ 100 ml of Lemon Spirit BP ♦ 100 ml of Aromatic Spirit of Ammonia IP ♦ 50 ml of Lemon Tincture IP ♦ 50 ml of Orange Tincture IP ♦ 50 ml of Strong Ginger Tincture IP ♦ 100 gm Liquorice Powder ♦ 100 gm Belladonna Powder ♦ 20 ml of Simple Syrup IP ♦ 100 ml of Compound Syrup of Ferrous Phosphate BP ♦ 100 ml of Piperazine Citrate Elixir IP ♦ 100 ml of Acetyl Salicylic Acid Elixir ♦ 50 ml of Paracetamol Paediatric Elixir BP ♦ 100 ml of Terpin Hydrate Elixir IP ♦ 100 ml of Codeine Linctus BPC ♦ 50 ml of Compound Iodine Paint BPC ♦ 100 ml of Dilute Hydrochloric Acid USP ♦ 50 ml of Aqueous Iodine Solution IP ♦ 100 ml of Strong Solution of Ammonium Acetate IP ♦ 100 ml of Cresol with Soap Solution IP ♦ 50 ml of Potassium Permanganate Solution 02% w/v ♦ 25 ml of Sodium Bicarbonate Ear Drops BP ♦ 90 ml of Simple Soluble Carminative Mixture BPC ♦ 60 ml of Simple Soluble Analgesic Mixture ♦ 90 ml of Potassium Iodide Expectorant Mixture ♦ 90 ml of Potassium Citrate Mixture BP ♦ 90 ml of Potassium Citrate and Hyoscyamus Mixture BPC ♦ 90 ml of Sodium Salicylate and Sodium Bicarbonate Mixture ♦ 100 ml of Magnesium Sulphate Mixture BPC ♦ 90 ml of Anti-Diarrheal Diffusible Mixture ♦ 90 ml of Anti-Diarrheal Indiffusible Mixture ♦ 90 ml of Acetyl Salicylic Acid Mixture ♦ 50 ml of Lobelia and Stramonium Mixture BPC

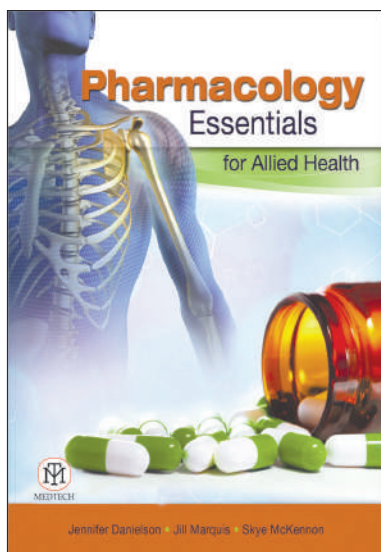
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Pharmacology Essentials for Allied Health

Jennifer Danielson, Jill Marquis, Skye McKennon

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
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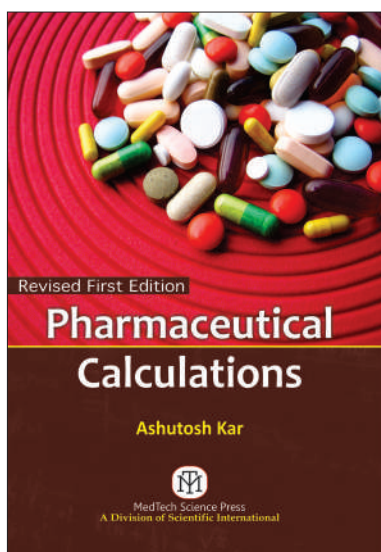
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Ashutosh Kar

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♦ 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 Conditionals ♦ Some Specific Calculations Involving Isotonicity, pH, and Buffers and Radioisotopes ♦ Electrolyte Solutions ♦ Equivalents and Milliequi-valents ♦ Millimols and Micromols Osmols, Milliosmols 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

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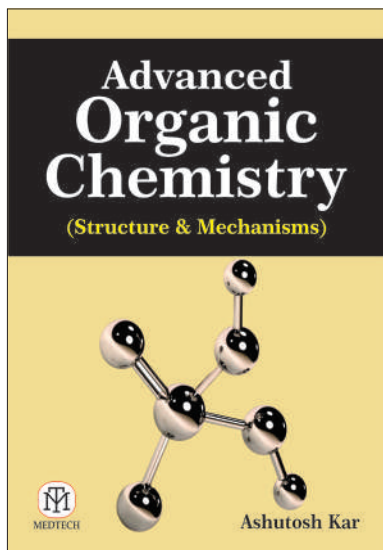
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Basic and Applied Sciences

Chemistry, Mathematics & Physics

CHEMISTRY



Advanced Organic Chemistry: Structure & Mechanisms

Ashutosh Kar

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Section 1: Fundamentals of Organic Chemistry ♦ Atomic Bonding ♦ Stereochemistry ♦ Reaction Intermediates and Factors Governing Reactivity

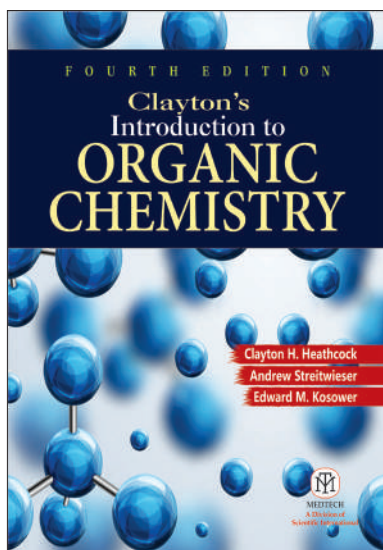
Section 2: Name Reactions Based on Product Formed ♦ Reactions Giving Carbonyl Compounds ♦ Reactions Giving Alcohol—Hydroxy Carboxylic Acid and Phenols ♦ Reactions Giving Arenes ♦ Reactions Giving Saturated and Unsaturated Hydrocarbons ♦ Reactions Giving Carboxylic Acids and its Derivatives ♦ Reactions Giving Heterocyclic Compounds and its Derivatives ♦ Reactions Giving Halogen Derivatives ♦ Miscellaneous Organic Reactions

Section 3: Rearrangements: Classification and Mechanism ♦ Rearrangements Induced by Cationic or Electron Deficient Sites (Carbon) ♦ Rearrangements Related to Electron Deficient Heteroatoms ♦ Rearrangements Related to Acyl Carbenes ♦ Sigmatropic Rearrangements ♦ Rearrangements Influenced by Strong Bases [and/or] Electron Rich Sites ♦ Rearrangements due to Addition-Elimination Mechanism ♦ Rearrangements in Pericyclic Reactions ♦ The Aromatic Rearrangements

Section 4: Organic Reactions and Mechanisms ♦ Substitution Reactions ♦ Elimination Reactions ♦ Electrocyclic Reactions ♦ Thermodynamics of Organic Reactions ♦ Addition Reactions

Section 5: Some Novel Reactions in Organosilicon Chemistry ♦ Accelerated Organic Synthesis with Organosilicon Compounds ♦ Appendices ♦ Index

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Clayton's Introduction to Organic Chemistry

CH Heathcock • A Streitwieser • EM Kosower

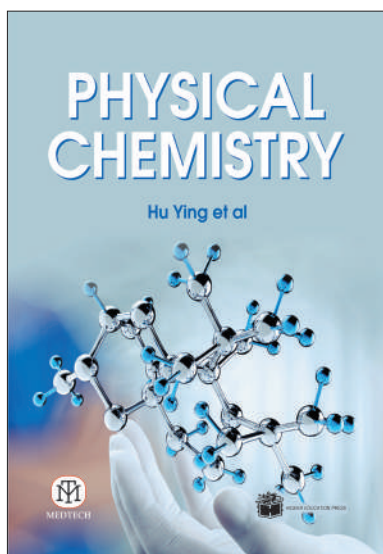


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Physical Chemistry

Hu Ying et al

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♦ Introduction ♦ Explanations Concerning Physical Quantities, Units and Symbols ♦ Symbols of Physical Quantities

Part I: Equilibrium ♦ pVT Relations and Thermal Properties of Substances ♦ Laws and Fundamental Equations in Thermodynamics ♦ Thermodynamics of Multicomponent Systems, Fugacity and Activity ♦ Phase Equilibria ♦ Chemical Equilibria

Part II: Rate ♦ Transport Phenomena ♦ Chemical Kinetics ♦ Kinetics of Various Types of Chemical Reactions

Part III: Structure ♦ Basics of Quantum Mechanics ♦ Theories of Chemical Bonds and Intermolecular Forces ♦ Basic Principles of Spectroscopy

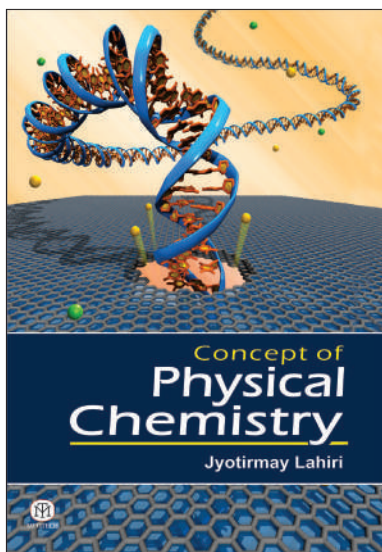
Part IV: Statistics ♦ Statistical Mechanics for Independent-Particle Systems ♦ Statistical Mechanics for Dependent-Particle Systems ♦ Rate Theories

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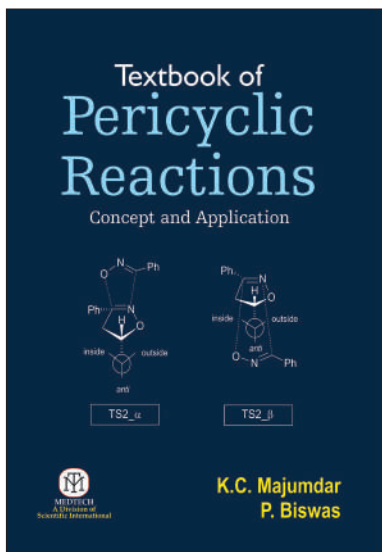
Concept of Physical Chemistry

Jyotirmay Lahiri

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- ♦ Thermodynamics
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- ♦ The Chemical Equilibrium
- ♦ The Kinetic Theory of Gases
- ♦ Ionic Equilibrium (Acid and Bases)
- ♦ Chemical Kinetics
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Textbook of Pericyclic Reactions

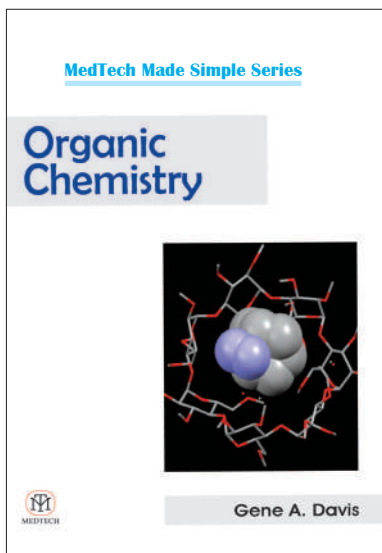
Concept and Application

KC Majumdar • P Biswas

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- ♦ Introduction
- ♦ Symmetry Properties of Molecular Orbitals
- ♦ Theory of Pericyclic Reactions
- ♦ Cycloaddition Reactions
- ♦ Electrocyclic Reactions
- ♦ Sigmatropic Reactions
- ♦ Site Selectivity and Periselectivity
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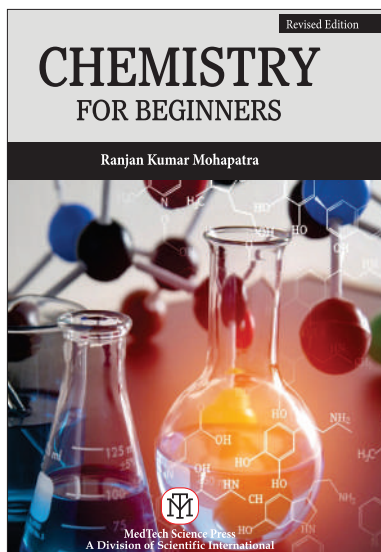
Organic Chemistry

Gene A Davis

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- ♦ 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
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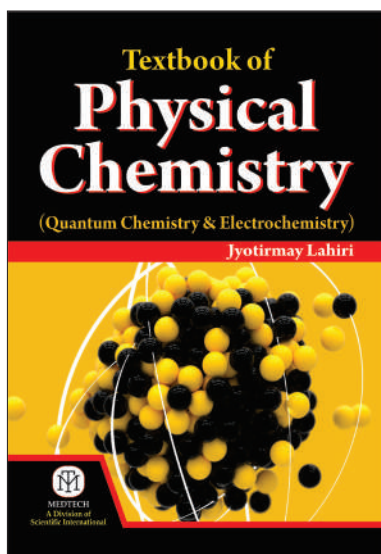
Ranjan Kumar Mohapatra

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- ♦ Some Basic Concepts of Chemistry
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- ♦ Chemical Reactions
- ♦ Chemical Equations
- ♦ Chemical Compounds
- ♦ State of Matter
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Textbook of Physical Chemistry (Quantum Chemistry & Electrochemistry)

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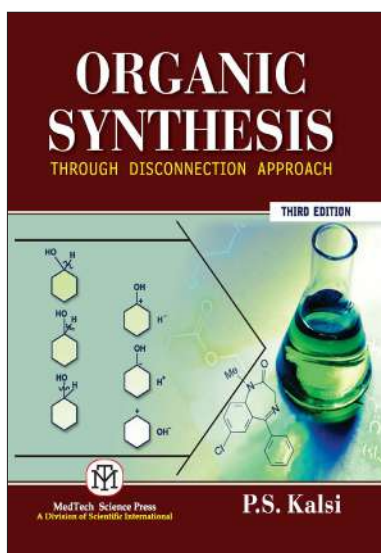
QUANTUM CHEMISTRY

- ♦ General Quantum Chemistry ♦ Atomic Spectra ♦ Molecular Spectra ♦ Molecular Structure Investigation ♦ Solid State ♦ Liquids ♦ Colligative Properties of Solution ♦ The Phase Rule
- ♦ Adsorption ♦ Kinetics of Catalysts ♦ Heterogeneous Equilibria ♦ Real Gases ♦ Summary
- ♦ Problems For Practice ♦ Questions ♦ Glossary of Technical Terms

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Organic Synthesis Through Disconnection Approach

PS Kalsi

3rd Edition

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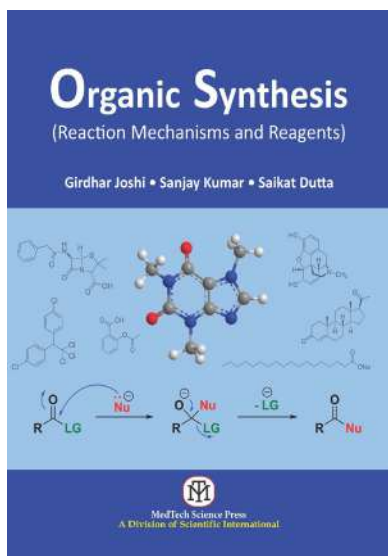
- ♦ Basic Knowledge of Organic Reactions and Retrosynthesis
- ♦ Retro synthetic Analysis—Choosing Disconnections—Some Examples with more Systematic Approach
- ♦ Synthesis of Carbonyl Compounds
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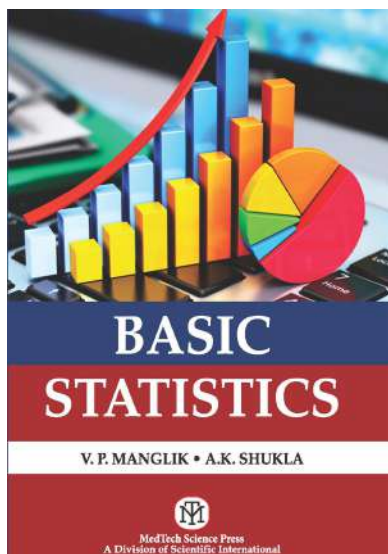
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Girdhar Joshi • Sanjay Kumar • Saikat Dutta

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- ♦ Formation of Carbon-Carbon Single Bonds via Enolate Anions
- ♦ Formation of Carbon-Carbon Single Bonds (I)-(via Non-Transition Organometallic Reagents)
- ♦ Formation of Carbon-Carbon Single Bonds (II)-(via Transition Metal Organometallic Reagents)
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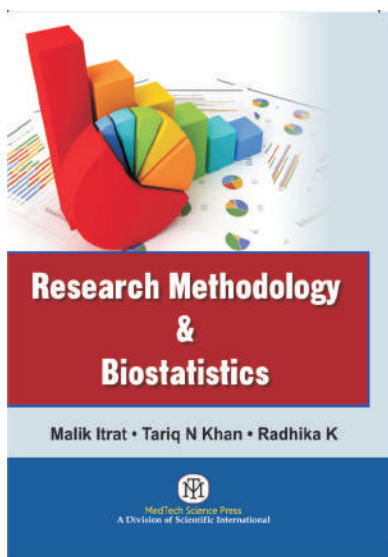
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Research Methodology & Biostatistics

Malik Itrat • Tariq N Khan • Radhika K

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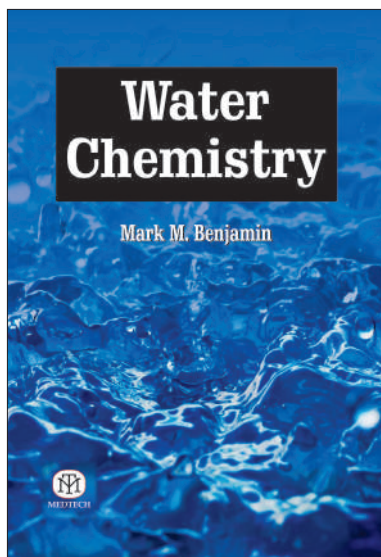
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Water Chemistry

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- ♦ Concepts in Aquatic Chemistry
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- ♦ 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



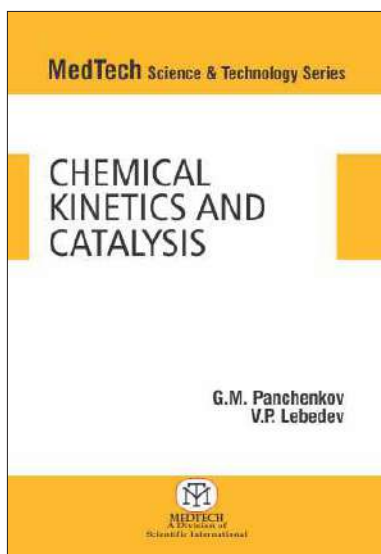
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Chemical Kinetics and Catalysis

GM Panchenkov • VP Lebedev

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- ♦ Dissociation of Molecules under the Action of Light (Photochemical Dissociation) ♦ Exchange of Energy in Collisions Dissociation and Formation of Molecules ♦ Fundamentals of Collision Theory and Bimolecular Processes ♦ Theory of Activated Complex (Transition State) ♦ Monomolecular and Trimolecular Reactions ♦ Reactions in Solutions ♦ Chain Reactions ♦ Photochemistry ♦ Chemical Action of High-Energy Radiation ♦ Catalytic Reactions ♦ Homogeneous Catalytic Reactions ♦ Heterogeneous Catalytic Reactions ♦ Kinetics of Heterogeneous Catalytic Reactions in Static Conditions and in a Flow System ♦ Theory of Active Centres in Heterogeneous Catalysis ♦ Adsorption and Catalytic Phenomena on Heterogeneous Surfaces ♦ Multiplet Theory of Catalysis ♦ Theory of Active Ensembles ♦ Electron Notions in Heterogeneous Catalysis ♦ Kinetics of Enzyme Catalysis ♦ Kinetics of Reactions of High-Molecular Compound Formation ♦ Use of Tracer Atoms in Chemical Kinetics



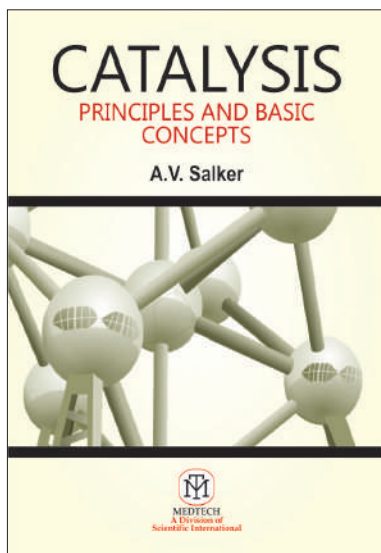
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Catalysis: Principles and Basic Concepts

AV Salker

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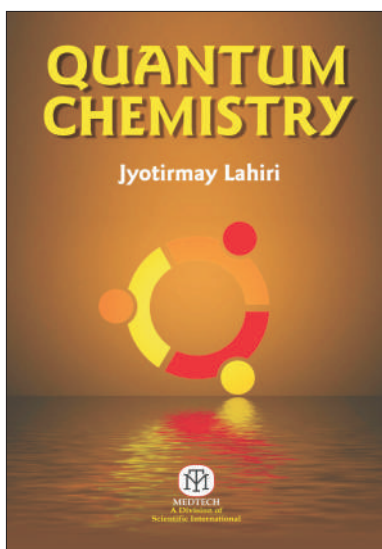
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- ♦ Introduction to Heterogeneous Catalysis
- ♦ Adsorption Phenomenon
- ♦ Types of Catalysts
- ♦ Characterization, Spectroscopic and Structural Aspects
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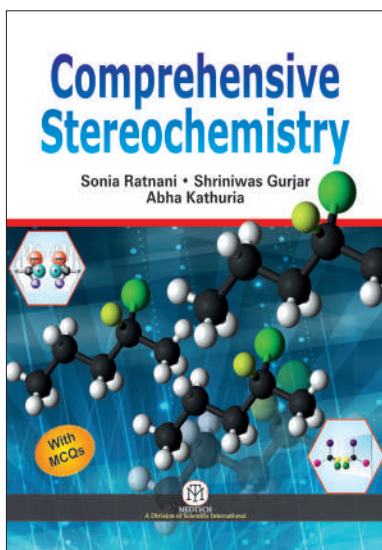
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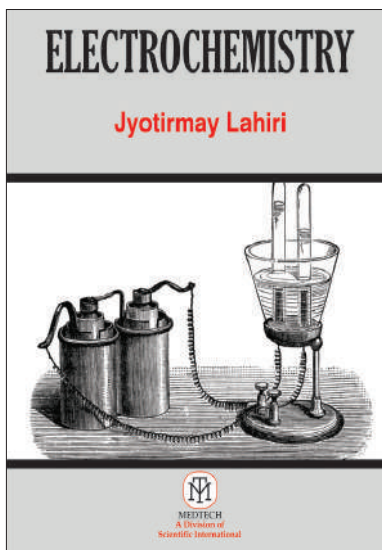
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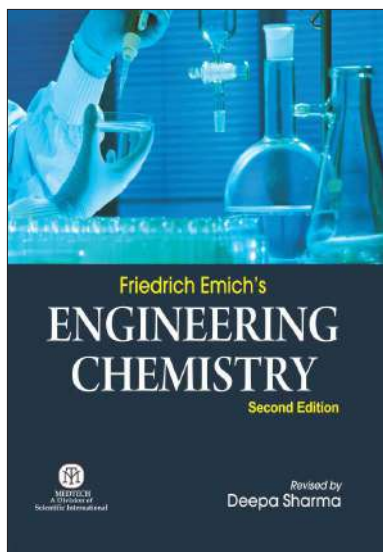
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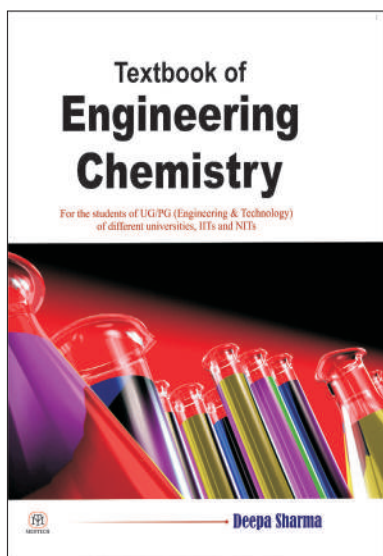


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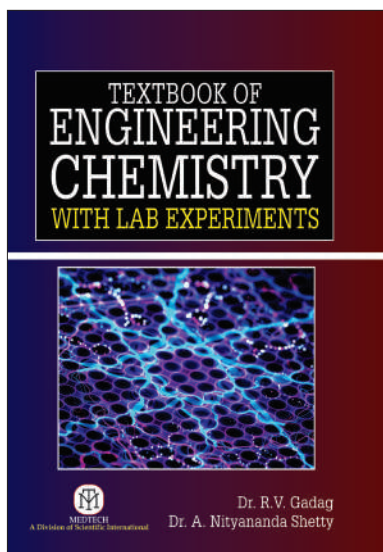
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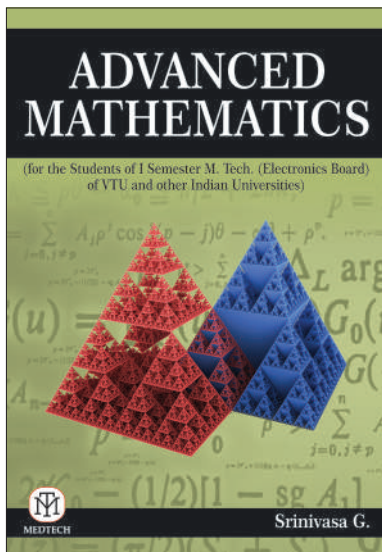
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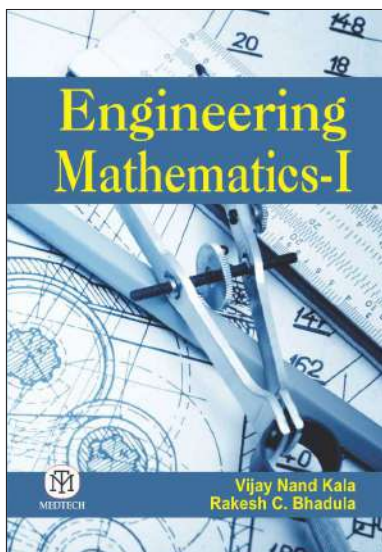
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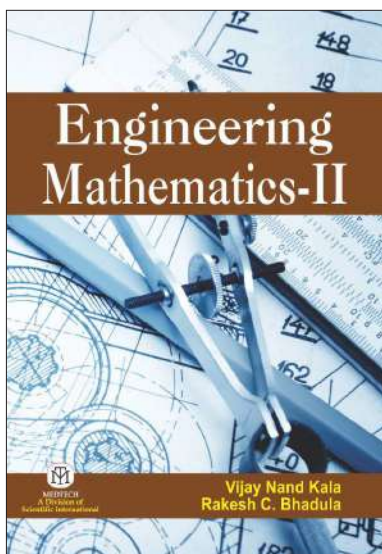
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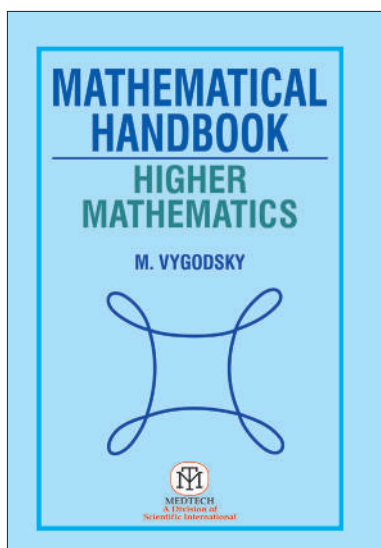
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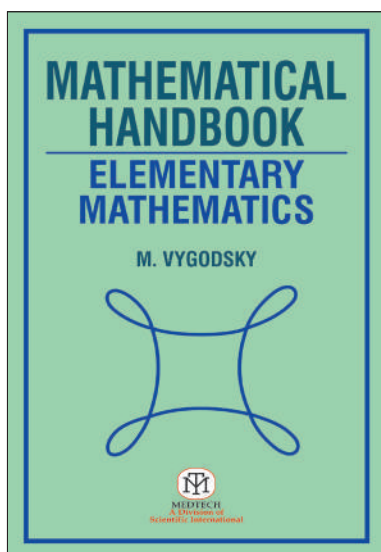
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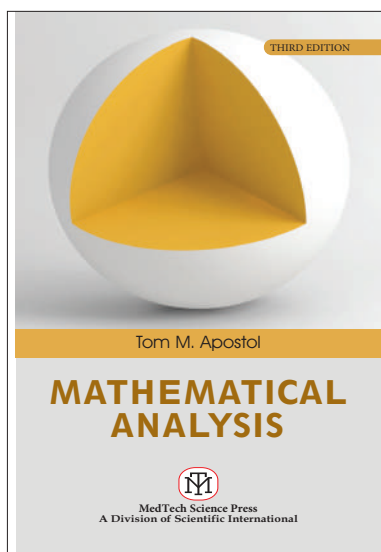
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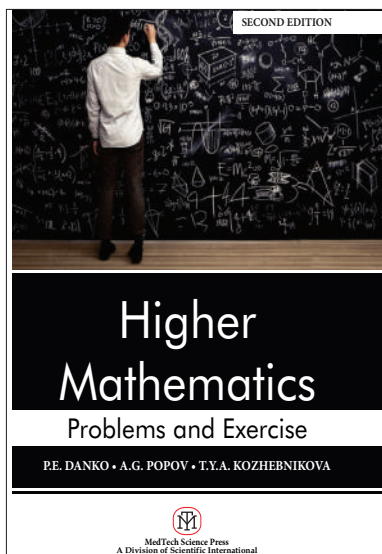
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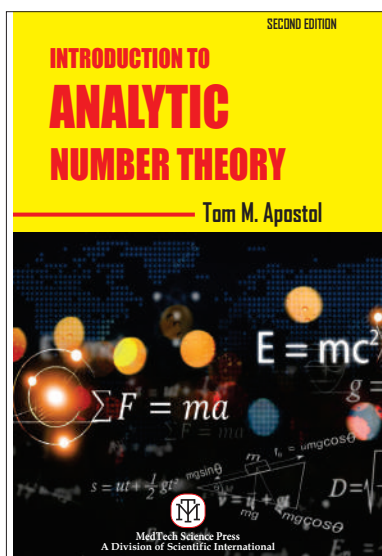
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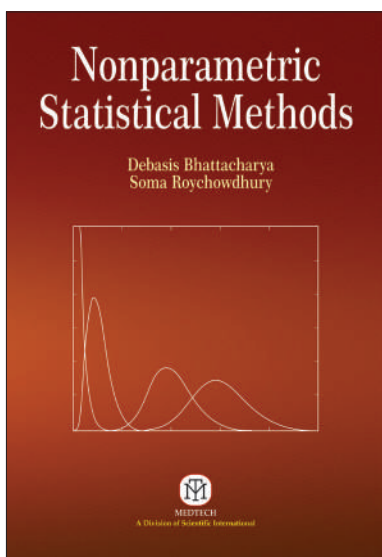
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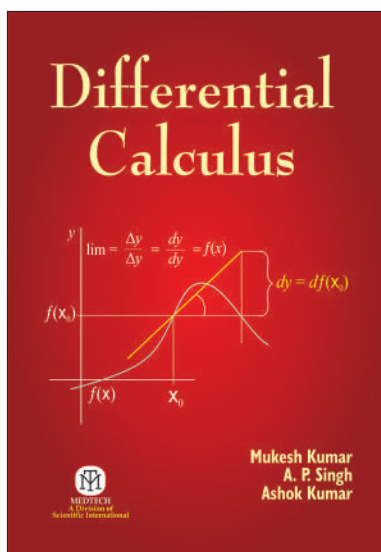
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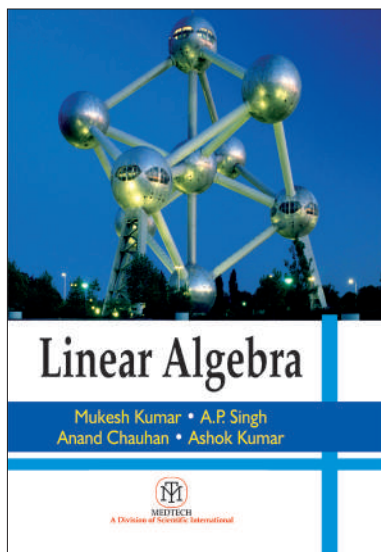
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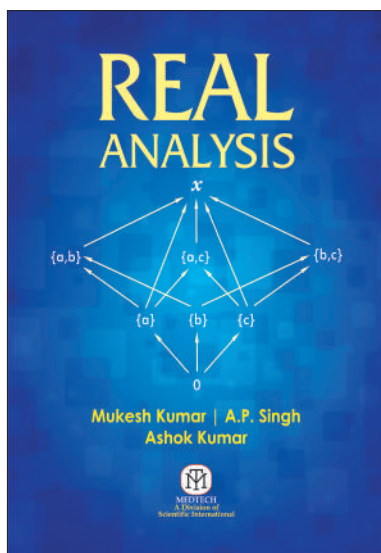
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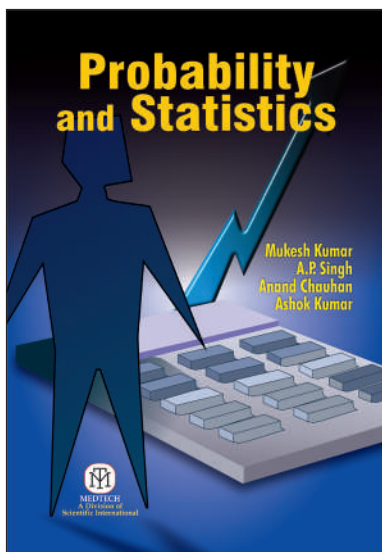
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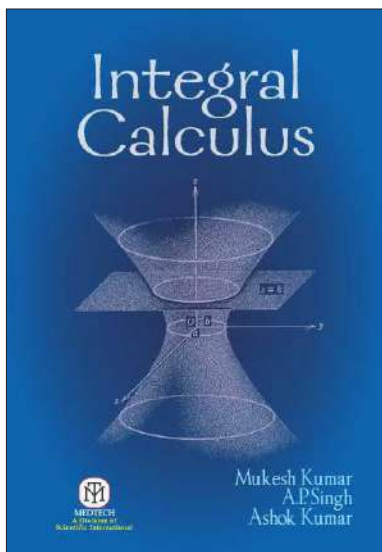
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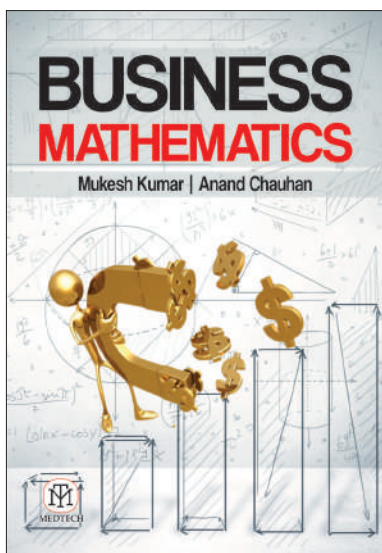
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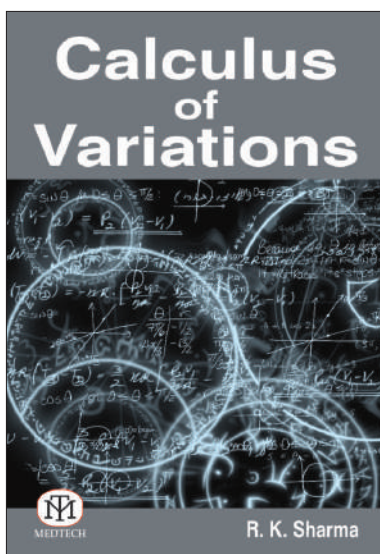
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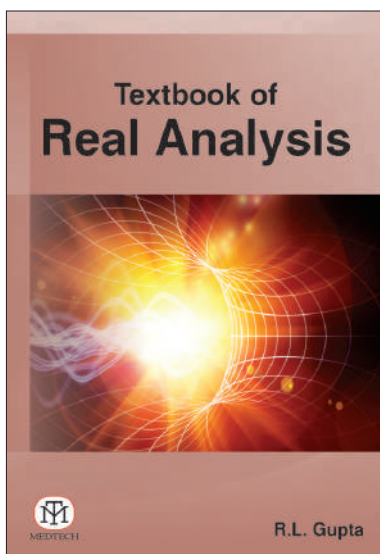
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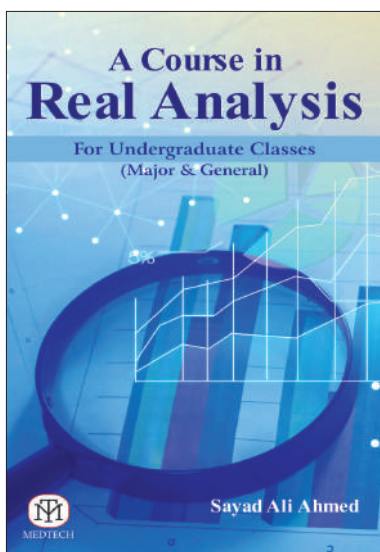
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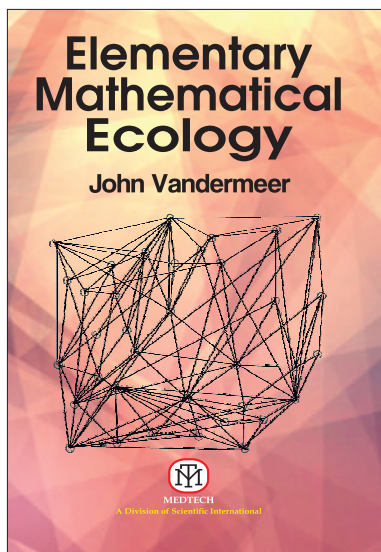
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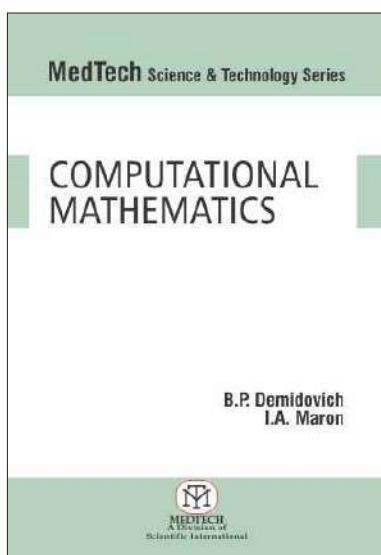
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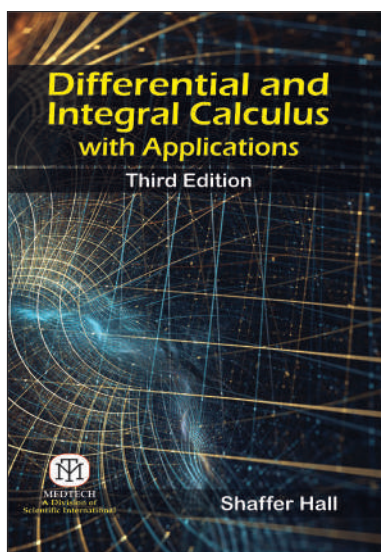
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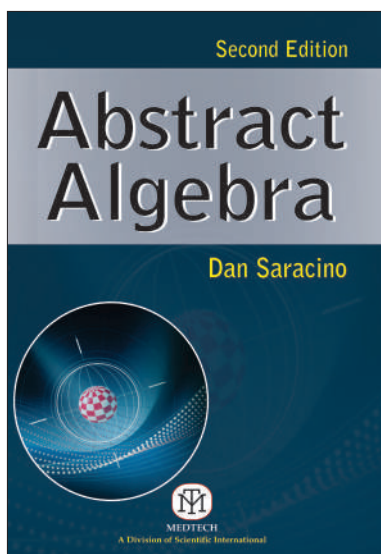
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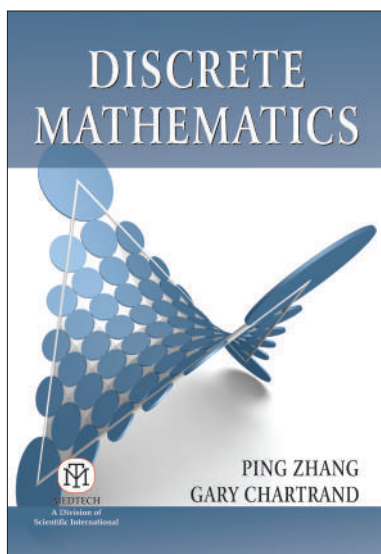
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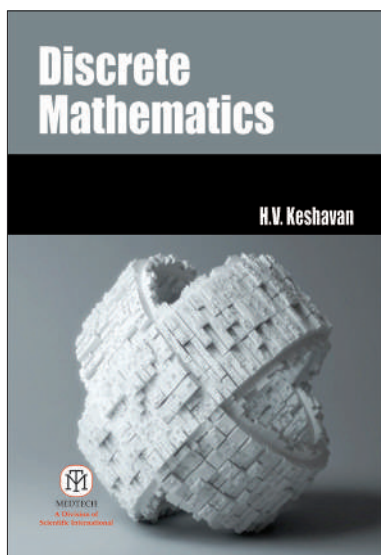
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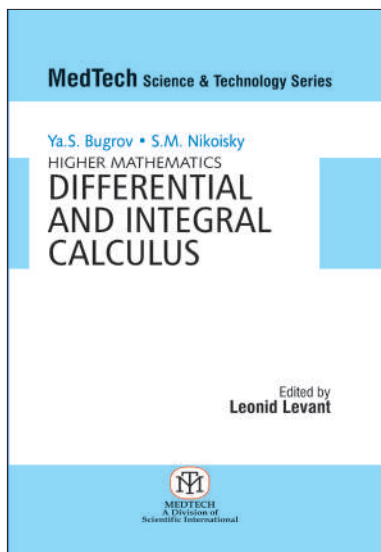
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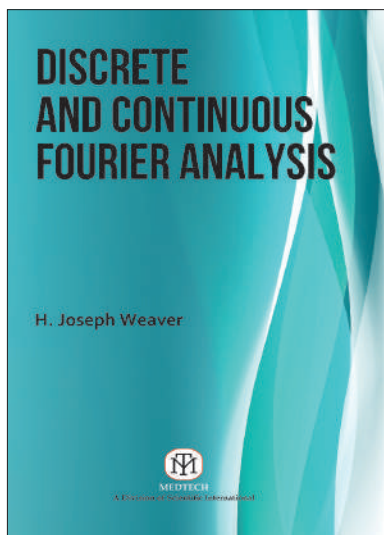
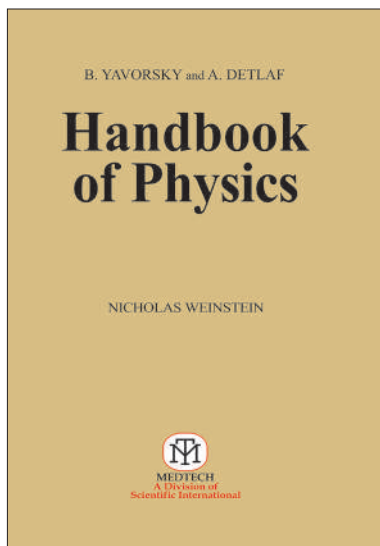
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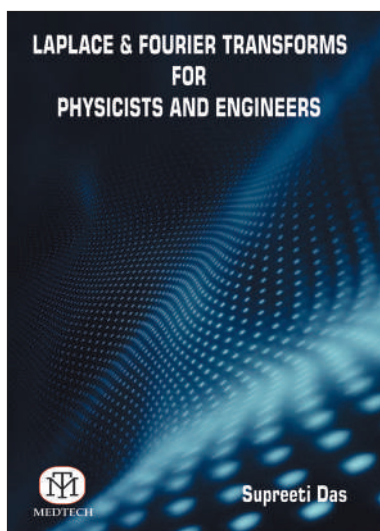
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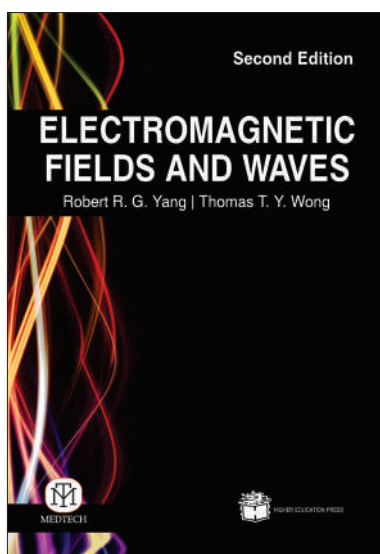
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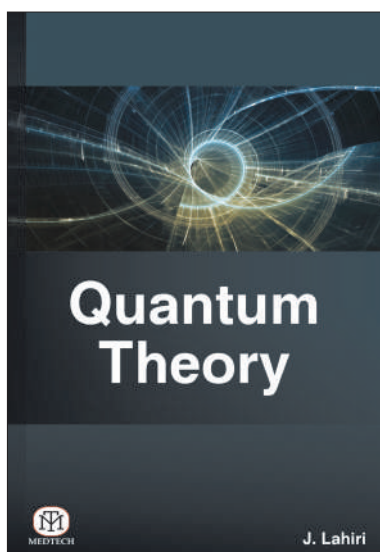
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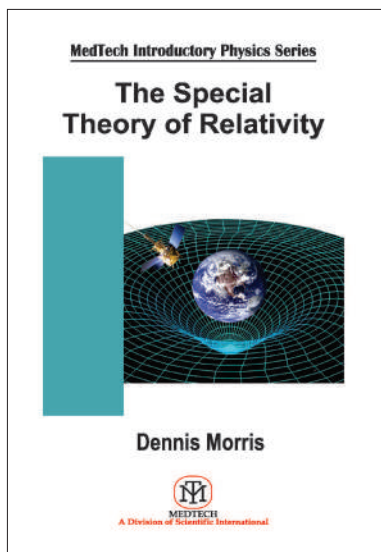
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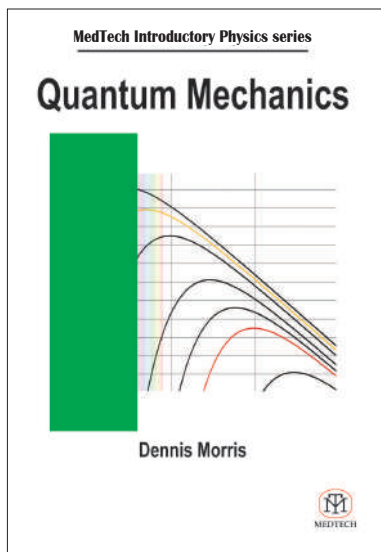
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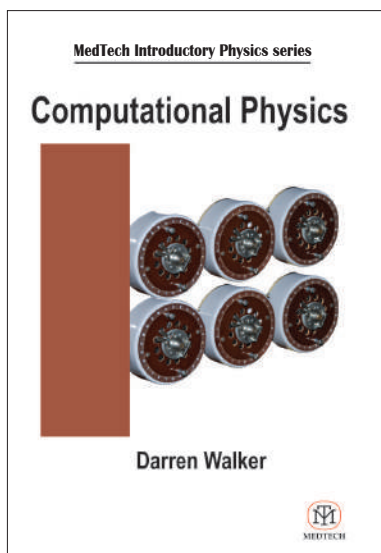
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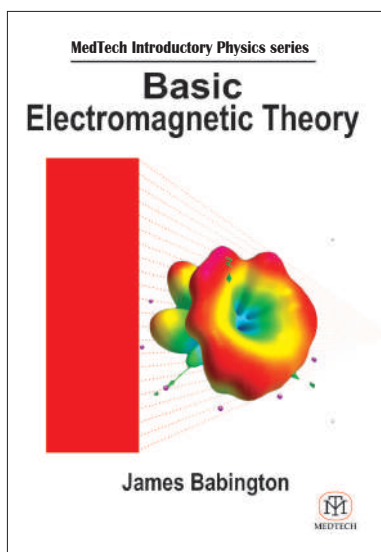
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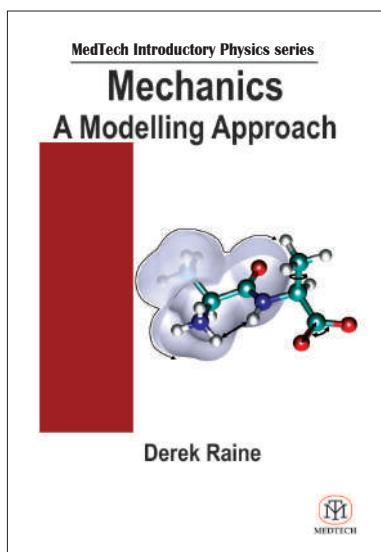
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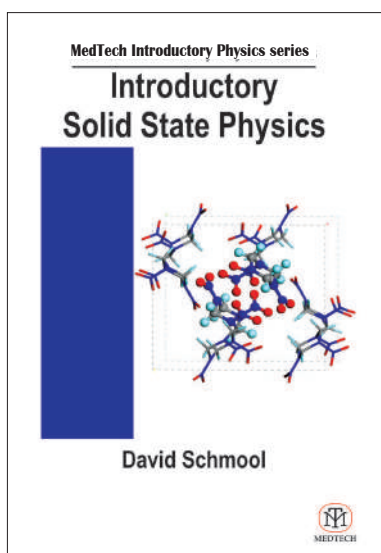
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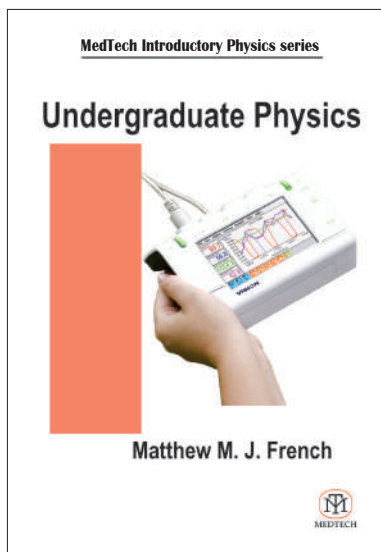
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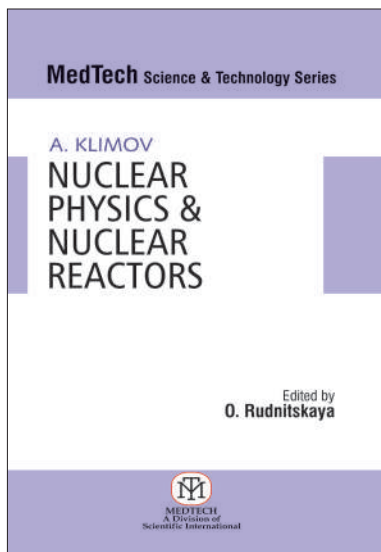
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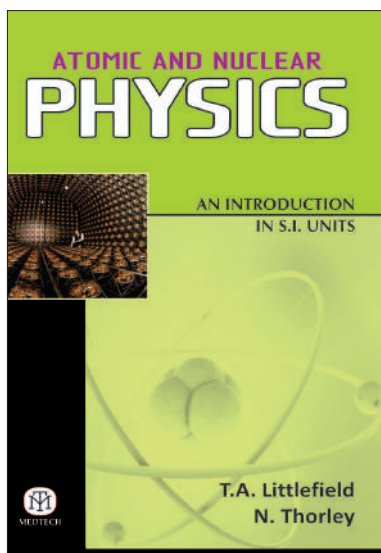
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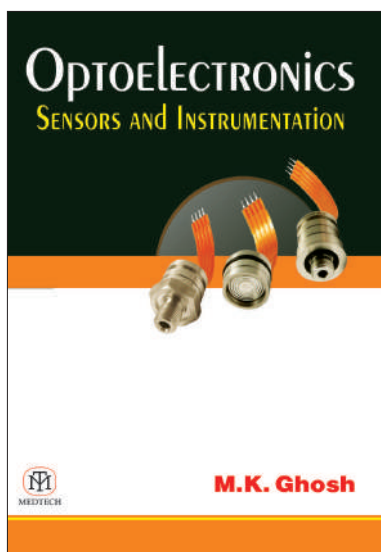
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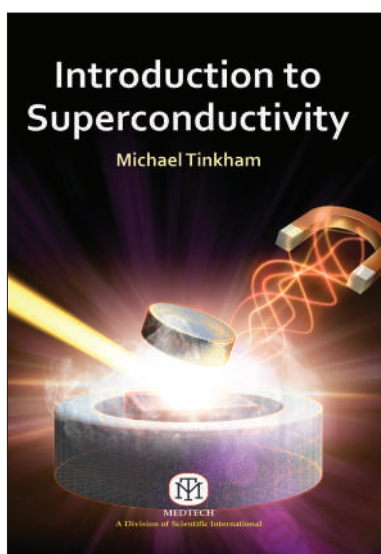
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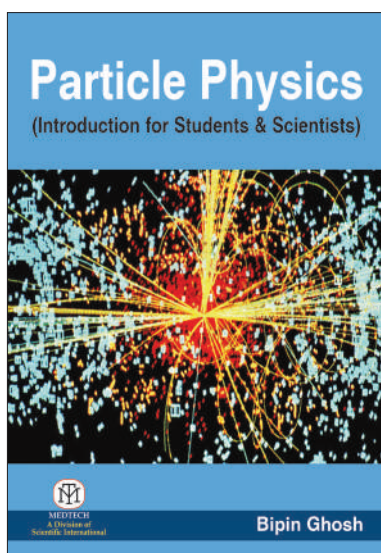
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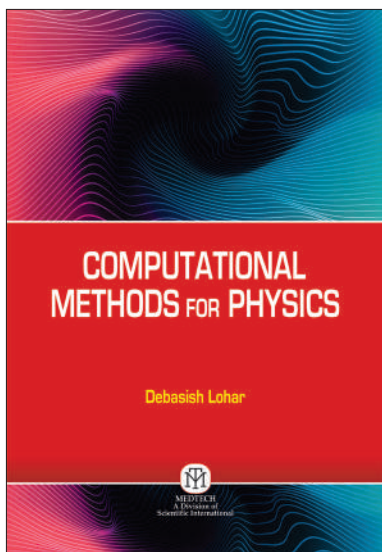
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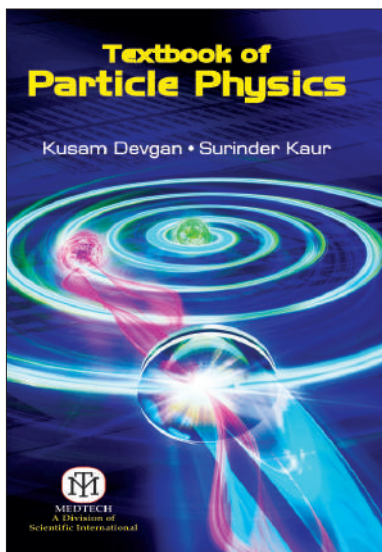
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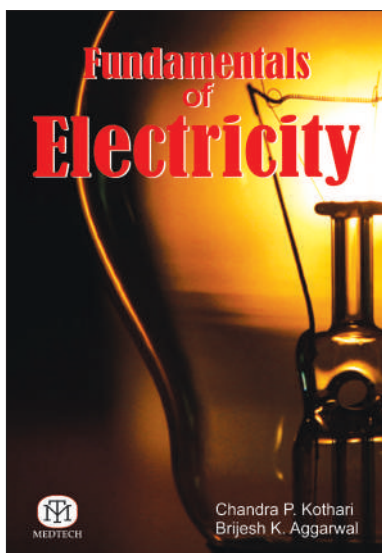
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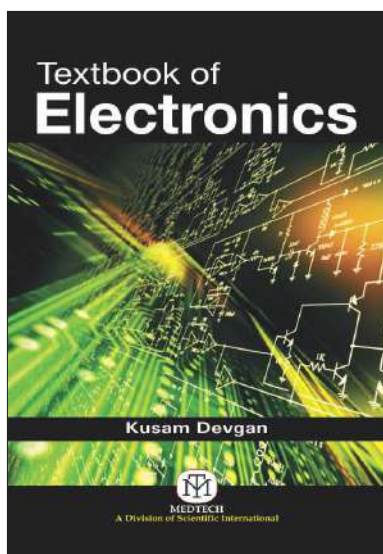
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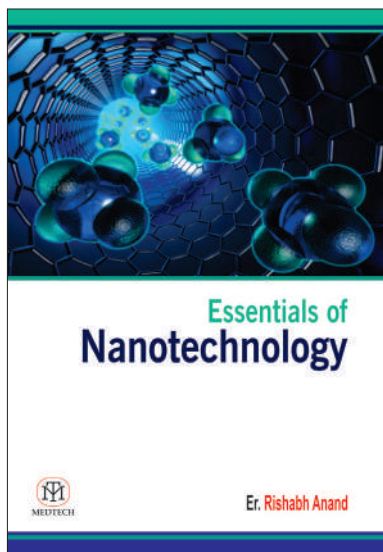
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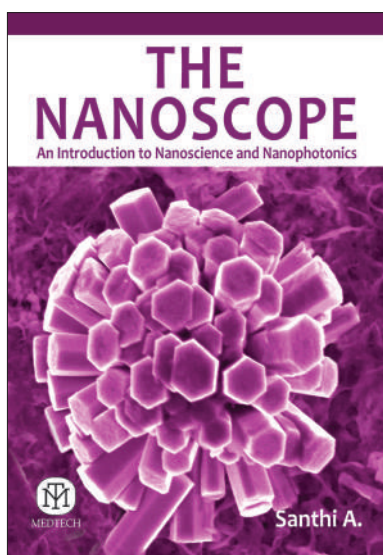
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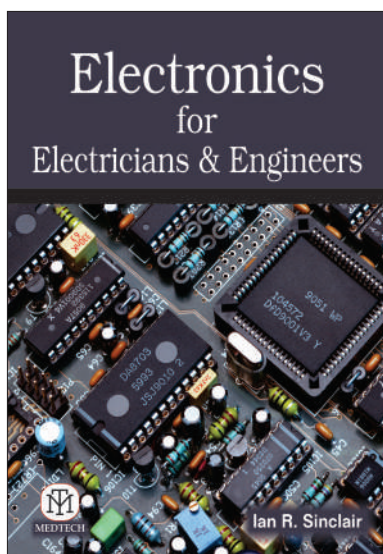
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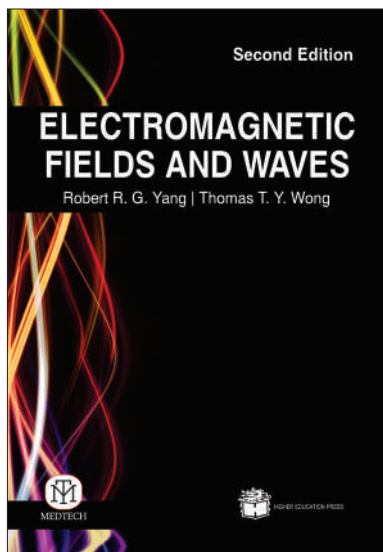
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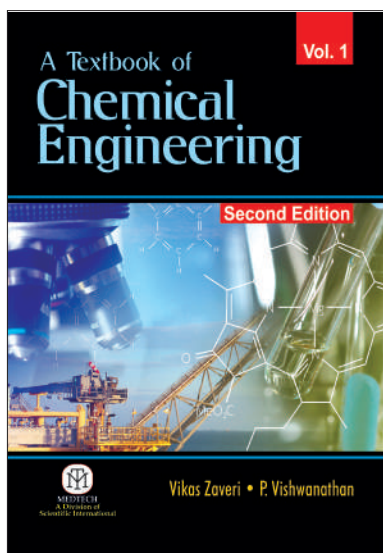
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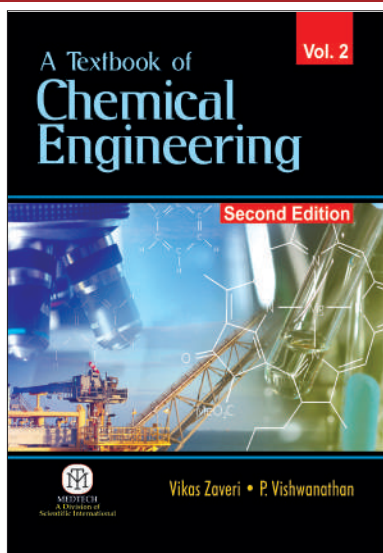


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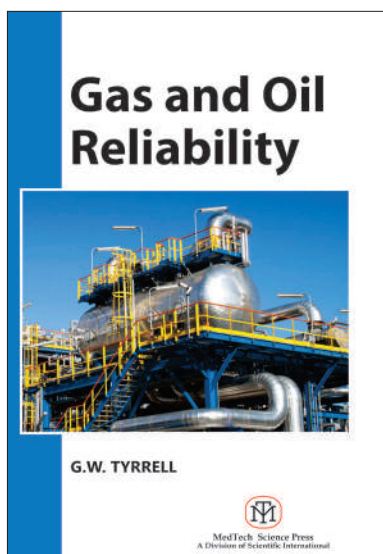
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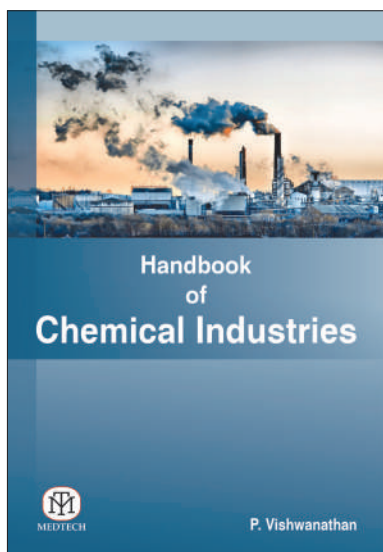
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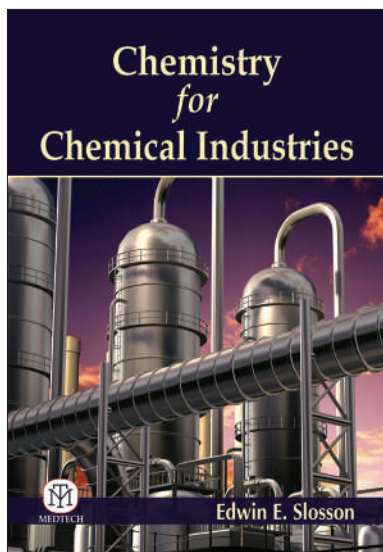
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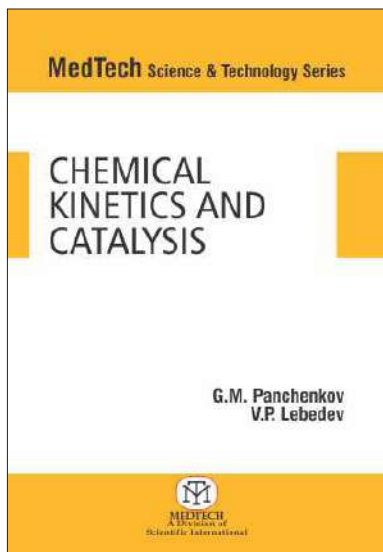
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- ♦ Colors of Coal-Tar
- ♦ Synthetic Perfumes and Flavours
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Chemical Kinetics and Catalysis

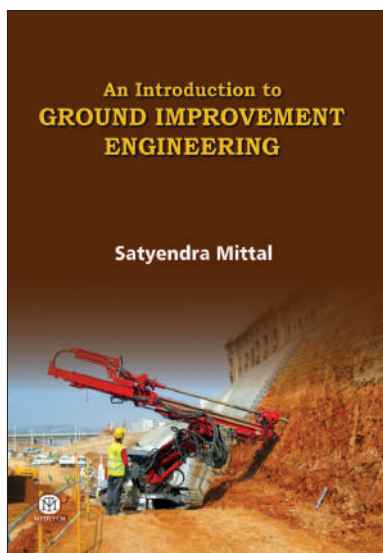
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Contents

- ♦ Formal Kinetics ♦ General ♦ Kinetics of Reactions in Static Conditions ♦ Kinetics of Homogeneous Chemical Reactions in a Flow System ♦ General Laws of the Decomposition and Formation of Molecules
- ♦ Dissociation of Molecules under the Action of Light (Photochemical Dissociation) ♦ Exchange of Energy in Collisions
- ♦ Dissociation and Formation of Molecules ♦ Fundamentals of Collision Theory and Bimolecular Processes ♦ Theory of Activated Complex (Transition State) ♦ Monomolecular and Trimolecular Reactions
- ♦ Reactions in Solutions ♦ Chain Reactions ♦ Photochemistry ♦ Chemical Action of High-Energy Radiation ♦ Catalytic Reactions ♦ Homogeneous Catalytic Reactions ♦ Heterogeneous Catalytic Reactions
- ♦ Kinetics of Heterogeneous Catalytic Reactions in Static Conditions and in a Flow System ♦ Theory of Active Centres in Heterogeneous Catalysis ♦ Adsorption and Catalytic Phenomena on Heterogeneous Surfaces
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CIVIL ENGINEERING



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Satyendra Mittal

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- ♦ Reinforced Earth Application in Foundations
- ♦ Reinforced Earth Wall
- ♦ Use of Geosynthetics on Roads and Pavements
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- ♦ Stones Columns
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Text of Computer Aided Machine Drawing

Tryambaka

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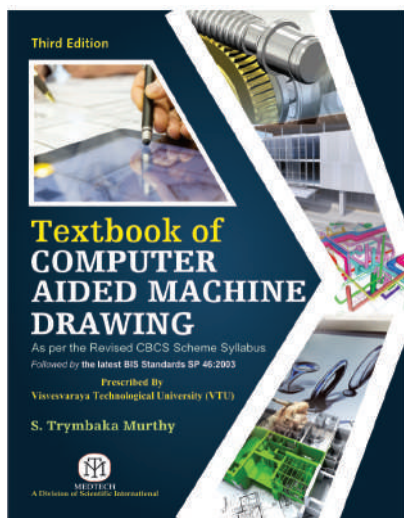
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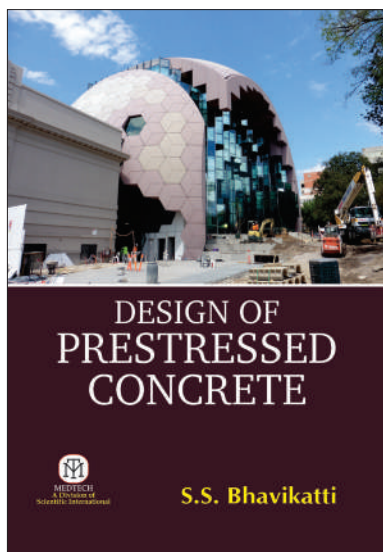
Design of Prestressed Concrete

SS Bhavikatti

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♦ Introduction
♦ Materials
♦ Methods of Prestressing
♦ Analysis of Prestressed Concrete Sections for Flexure
♦ Loss of Prestress
♦ Deflection of Uncracked Beams
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♦ Design For Torsion ♦ Transmission Zone in Pre-Tensioned Members
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♦ References ♦ Index

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Jan A van der Westhuizen

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♦ Unit 2: Foundations and Columns
♦ Unit 3: Beams and Slabs
♦ Unit 4: Using Computer Aided Concrete Training

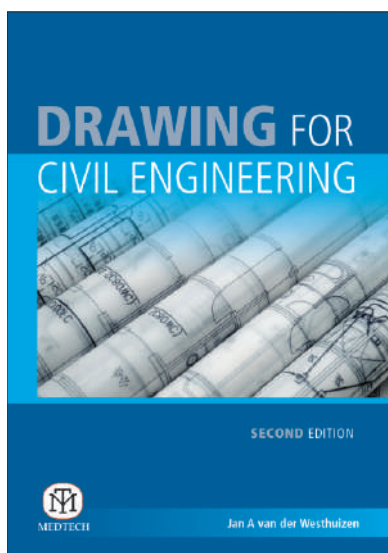
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♦ Unit 8: Beam-to-beam Connections ♦ Unit 9: Roof Structures

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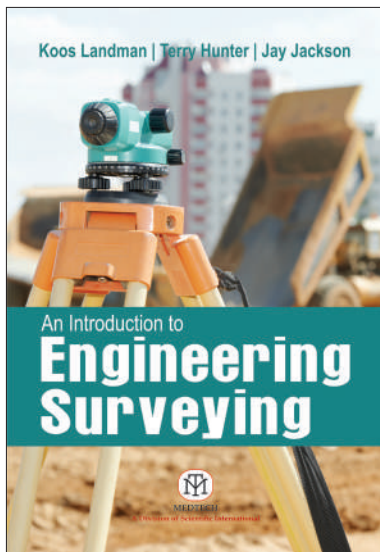
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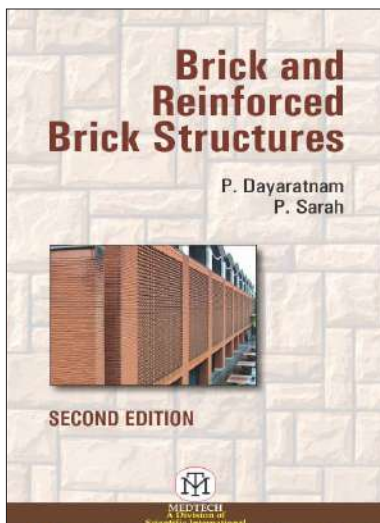
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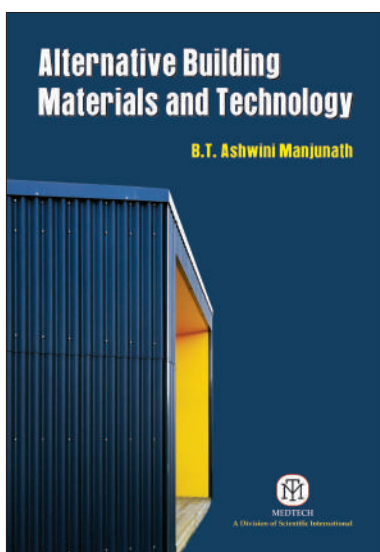
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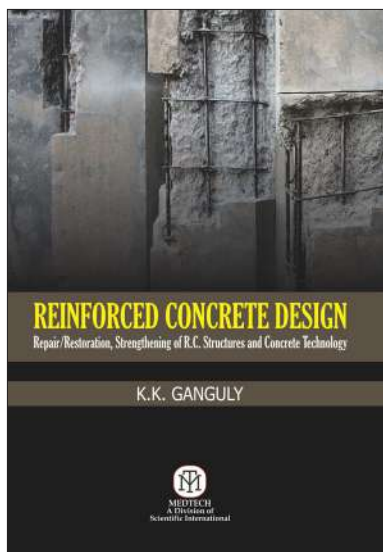
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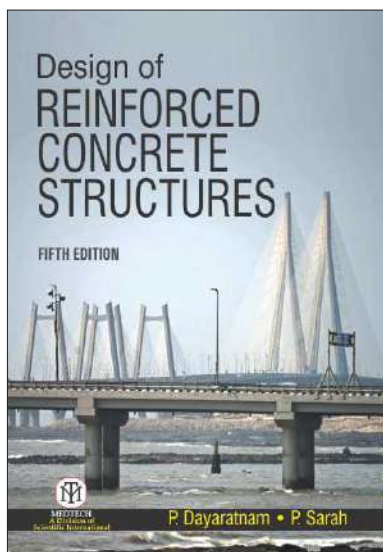
Reinforced Concrete Design Repair/Restoration, Strengthening of RC Structures and Concrete Technology

KK Ganguly

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- ♦ Development of Concrete
- ♦ Concrete Construction and its Impact
- ♦ Development of Special Concrete ♦ Cracks in Concrete, Problems and Deteriorations
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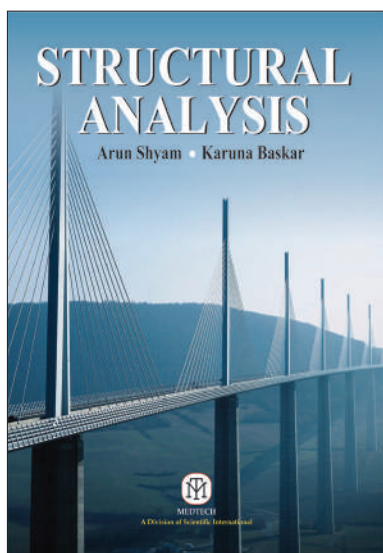
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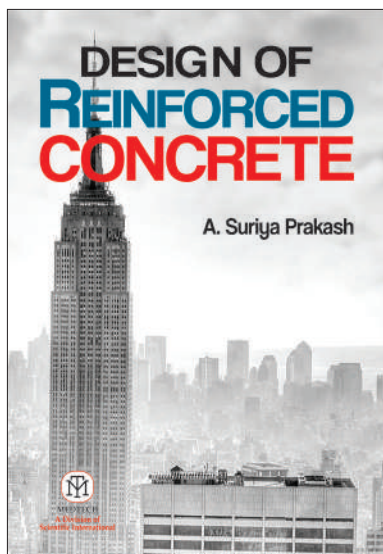
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- ♦ Influence Lines for Statically Determinate Structures ♦ Approximate Analysis of Statically Indeterminate Structures ♦ Deflections ♦ Analysis of Statically Indeterminate Structures by the Force Method
- ♦ Displacement Method of Analysis: Slope-Deflection Equations ♦ Displacement Method of Analysis: Moment Distribution ♦ Analysis of Beams and Frames Consisting of Nonprismatic Members ♦ Truss Analysis Using the Stiffness Method ♦ Beam Analysis Using the Stiffness Method ♦ Plane Frame Analysis Using the Stiffness Method ♦ Matrix Algebra for Structural Analysis ♦ The STRAN 4 Computer Program ♦ Answers to Selected Problems ♦ Index

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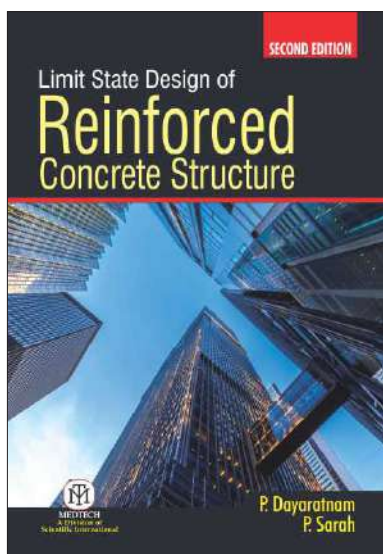
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A Suriya Prakash

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- ♦ Introduction
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- ♦ Design of Rectangular Beams and One-Way Slabs
- ♦ Analysis and Design of T Beams and Doubly Reinforced Beams
- ♦ Serviceability ♦ Bond, Development Lengths, and Splices
- ♦ Shear and Diagonal Tension ♦ Introduction to Columns
- ♦ Design of Short Columns Subject to Axial Load and Bending ♦ Slender Columns
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Limit State Design of Reinforced Concrete Structure

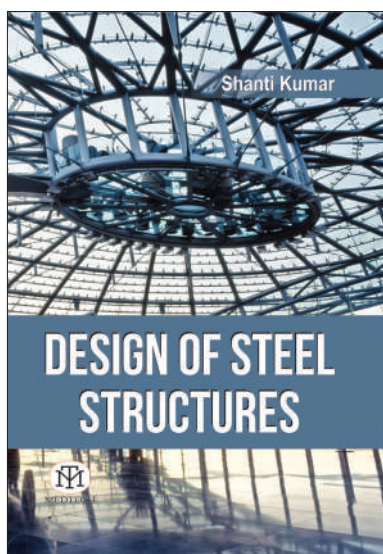
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- ♦ Brief Review of Materials Associated with Reinforced Concrete ♦ Strength Design of Beams of Rectangular Section ♦ Strength Design of Non-Rectangular Section and T Beams ♦ Design of Prestressed Concrete Beams ♦ Serviceability Limit State Design of Beams ♦ Design of Staircases, Curved and Ties Beams
- ♦ Design of Slabs by Limit State Design ♦ Yield Line Theory of Slabs ♦ Design of Axially Loaded Columns and Struts ♦ Design of Columns under Combined Bending ♦ Limit State Design of Footing and Raft Foundations ♦ Pile Foundations ♦ Design of Industrial Frames ♦ Design of Multistorey Building Frames
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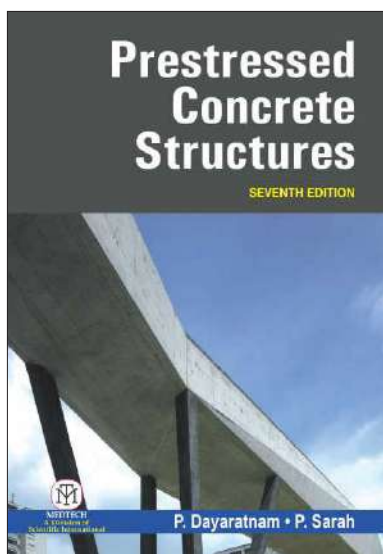
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Shanti Kumar

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Prestressed Concrete Structures

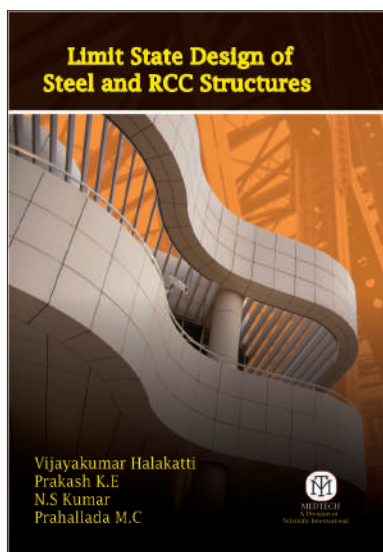
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- ♦ Working Stress Design of Simple Beams
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- ♦ Ultimate Load Design of Prestressed Concrete Beams
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- ♦ Bond in Prestressed Concrete
- ♦ Anchorage of Prestressing Cables
- ♦ Some Point of Interest in Prestressed Concrete Construction
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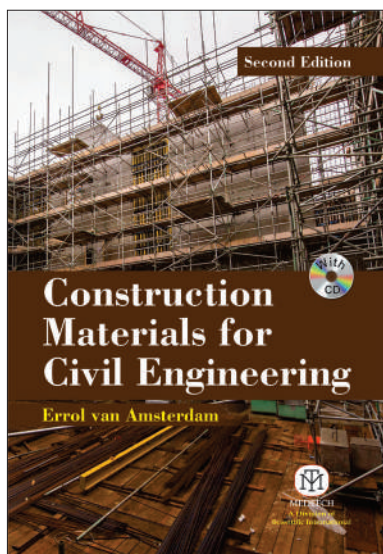
Limit State Design of Steel and RCC Structures

Vijayakumar Halakatti • Frakash KF • NS Kumar • Prahallada MC

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- ♦ Module 1A: Introduction
- ♦ Module 1B: Plastic Behaviour of Structural Steel
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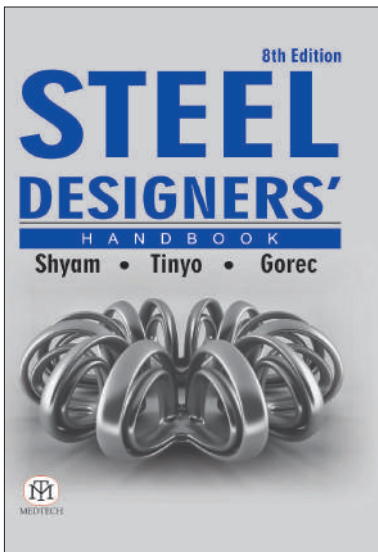
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Steel Designers' Handbook

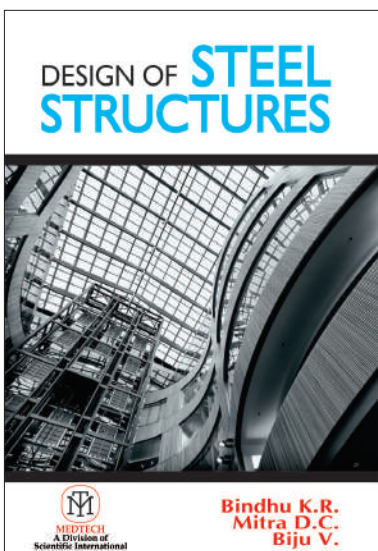
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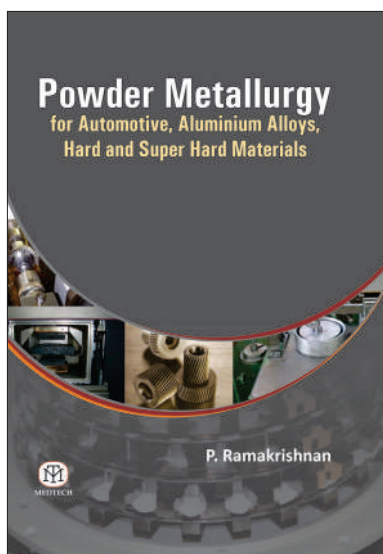
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Bindhu KR • Mitra D C • Biju V

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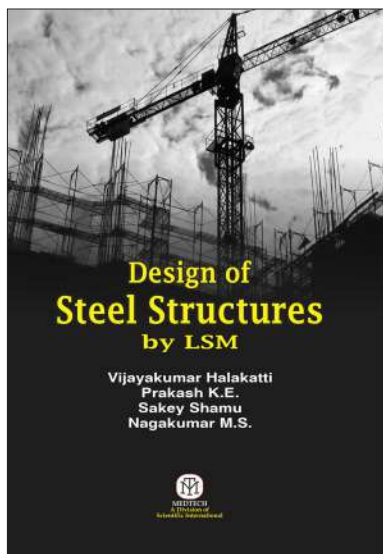
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P Ramakrishnan

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♦ 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

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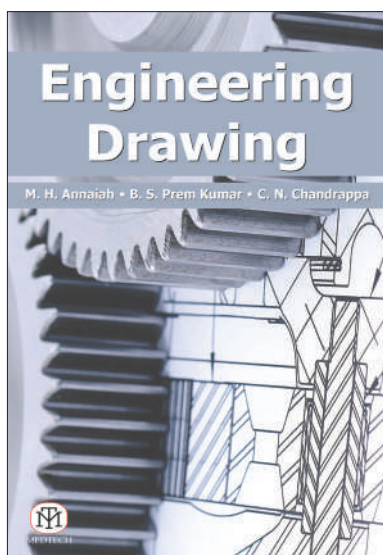
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Halakatti • Prakash • Shamu • Nagakumar

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♦ Plastic Behaviour of Structural Steel
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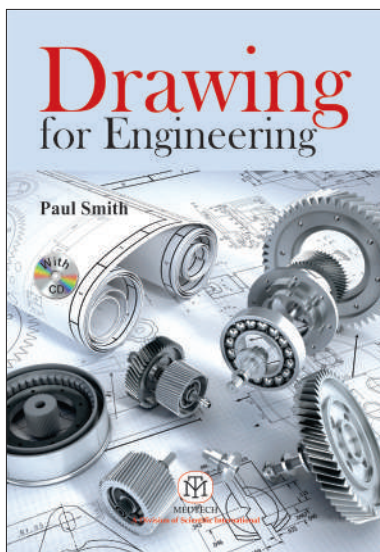
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♦ Use of Instruments
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♦ Sections of Solids
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♦ Isometric Projections

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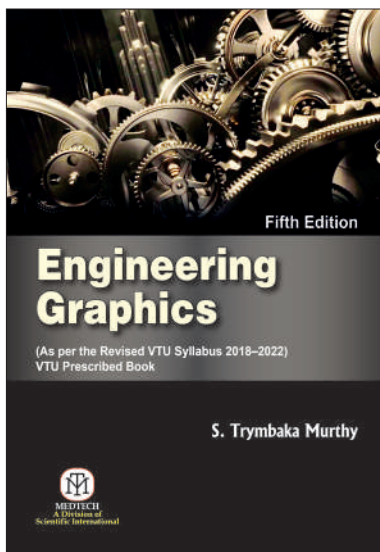
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Paul Smith

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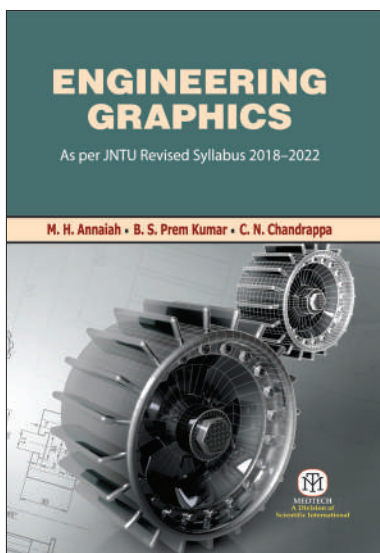
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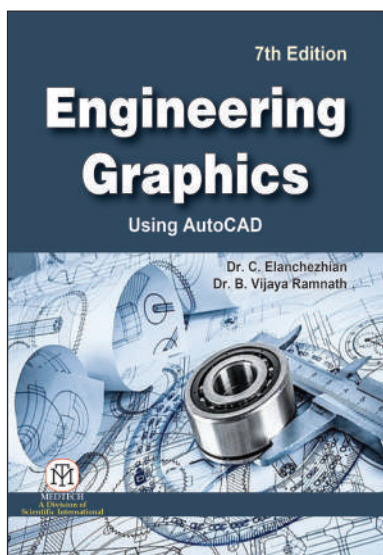
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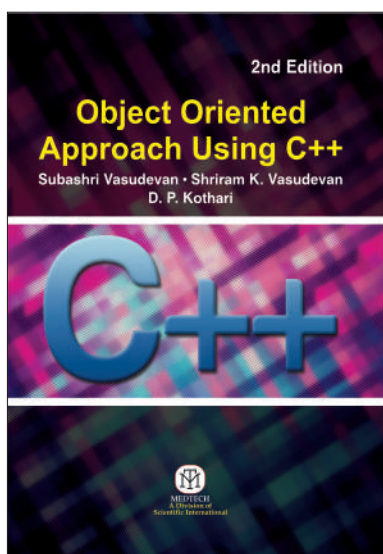
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COMPUTER SCIENCE



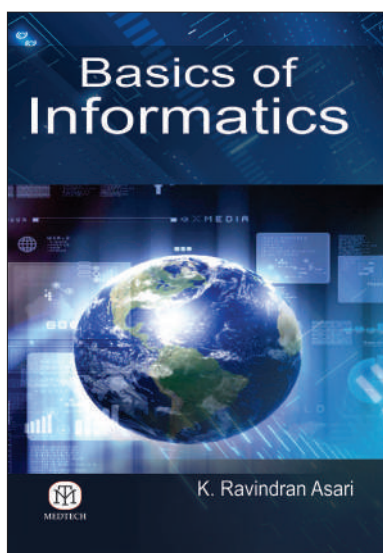
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- ♦ Operator Overloading
- ♦ Inheritance: An Analysis
- ♦ Templates
- ♦ Exception Handling ♦ Virtual Functions
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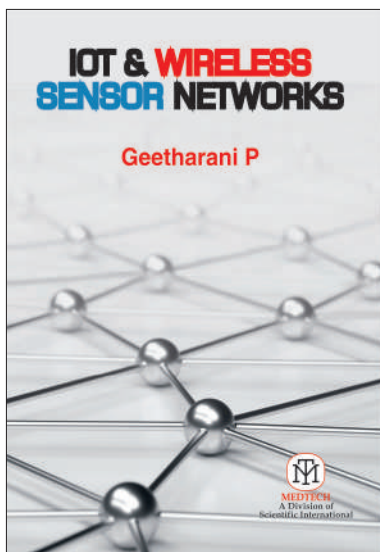
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K Ravindran Asari

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
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- Module 4** — Net working and Internet What is networking? ♦ LAN ♦ WAN ♦ Search engines ♦ Social Networking ♦ Appendix ♦ References

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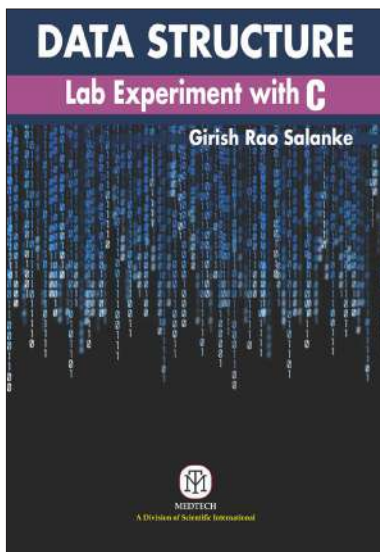
IOT & WIRELESS SENSOR NETWORKS

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- ♦ Overview of Internet of Things
- ♦ Design Principles for Connected Devices
- ♦ Prototyping and Designating the Software for IOT Applications
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- ♦ Communication Protocols
- ♦ List of Abbreviations and Acronyms
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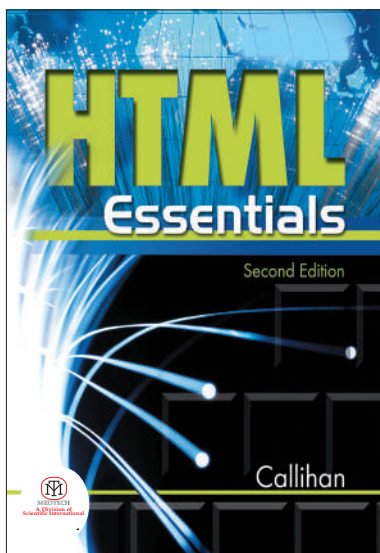
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Girish Rao Salanke

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- ♦ Manu Driven Program to Create an Array and to Perform Insertion and Deletion Operation
- ♦ String Searching and Replacement
- ♦ Stack Implementation Using Arrays
- ♦ Convert Infix to Postfix Expression
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- ♦ Tower of Hanoi Problem with n Disks
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- ♦ Binary Search Tree
- ♦ Create n Cities using Adjacency Matrix, Print Nodes Reachability by BFS Method and Connectivity of the Graph using DFS Method
- ♦ Create a Hash Table using a Hash Function and Resolve Collision using Linear Probing

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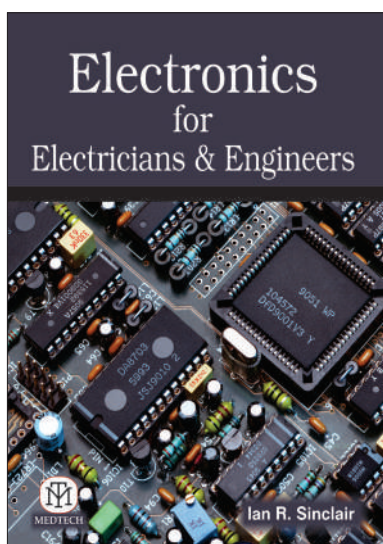
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- ♦ Glossary ♦ Index

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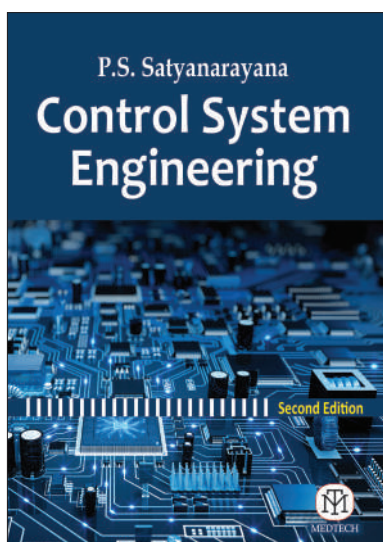
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- ♦ Fundamentals
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- ♦ Electric Current
- ♦ DC Circuits
- ♦ Electricity and Heat
- ♦ Magnetism
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- ♦ Electrons in a Vacuum ♦ The Semiconductor Diode
- ♦ Transistors ♦ Linear ICs
- ♦ Digital Integrated Circuits
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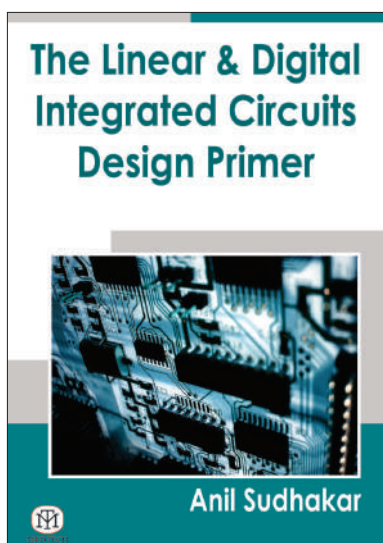
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- ♦ Time Domain Analysis
- ♦ Stability Concepts
- ♦ Concepts of Frequency Domain Techniques
- ♦ Modern Control Theory
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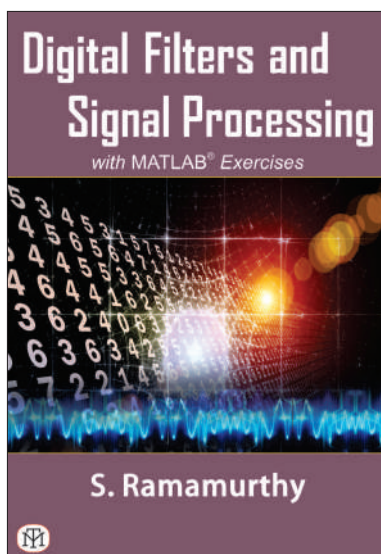
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Anil Sudhakar

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- ♦ Operational Amplifier Applications
- ♦ Phase Locked Loops
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S Ramamurthy

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- ♦ Discrete-Time Signals and Systems
- ♦ The z-Transform
- ♦ Input/Output Relationships
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- ♦ Filter Design by Modeling
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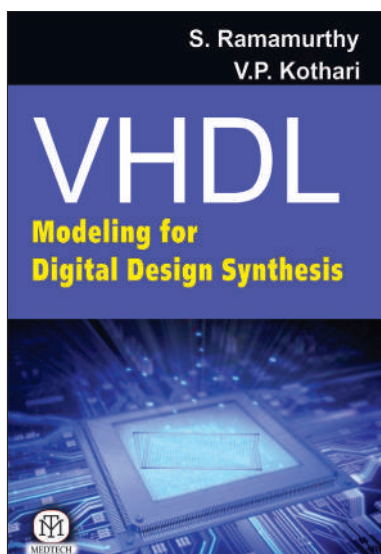
Analysis of Microcontrollers

DP Kothari, Shriram K Vasudevan, Subashri V, Sivaraman Ramachandran

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- ♦ Architecture of 8051
- ♦ 8051 Instruction Set
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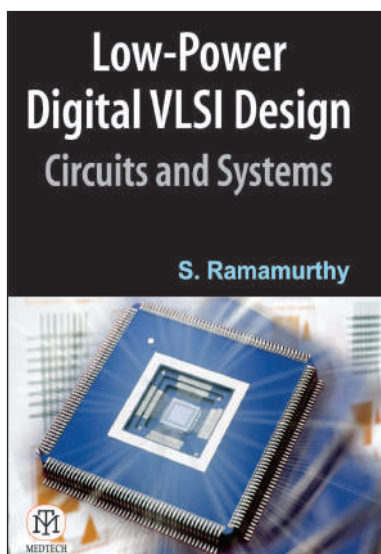
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- ♦ Basic Structures in VHDL
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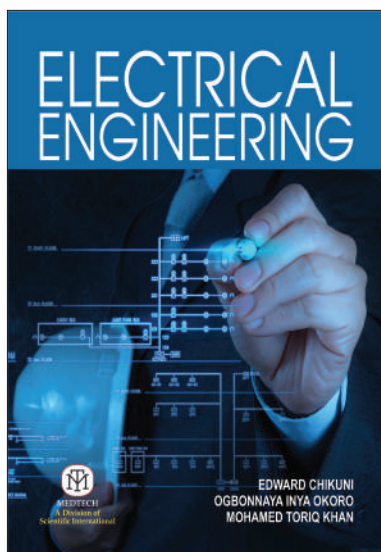
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S Ramamurthy

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- ♦ Low-Voltage Device Modeling
- ♦ Low-Voltage Low-Power VLSI CMOS Circuit Design
- ♦ Low-Voltage VLSI BICMOS Circuit Design
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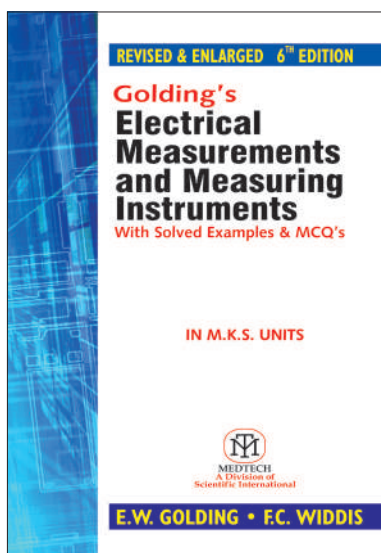
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- ♦ Engineering Units and Components
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- ♦ Computer Applications
- ♦ Polyphase Circuits ♦ DC Machines
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- ♦ Synchronous Machines ♦ Reluctance Force Actuators
- ♦ The Per Unit System and Network Applications ♦ Modelling and Analysis of Power Systems
- ♦ Symmetrical Components and Unbalanced Networks ♦ Power Electronics
- ♦ Illumination ♦ Distribution System Planning and Design
- ♦ Protection of Electrical Networks and Plant ♦ Electric Drives
- ♦ Essentials of Digital, Analogue and Semiconductor Electronics Technology
- ♦ Industrial Automation and Controls ♦ Appendix A, Appendix B, Appendix C ♦ References



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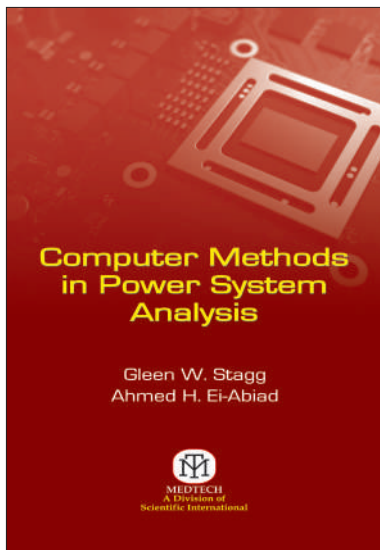
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- ♦ Measurement of Inductance and Capacitance ♦ Measurement of Resistance
- ♦ Potentiometers ♦ Magnetic Measurements
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- ♦ Localization of Cable Faults ♦ Electrical Methods of Measuring Temperature
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- ♦ Transient Phenomena ♦ Measuring Instruments
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- ♦ The Measurement of Power ♦ The Measurement of Energy
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Gleen W Stagg • Ahmed H Ei-Abiad

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- ♦ Algorithms for Formation of Network Matrices
- ♦ Three-phase Networks
- ♦ Short Circuit Studies
- ♦ Solution of Simultaneous Algebraic Equations
- ♦ Load Flow Studies
- ♦ Numerical Solution of Differential Equations
- ♦ Transient Stability Studies
- ♦ Index

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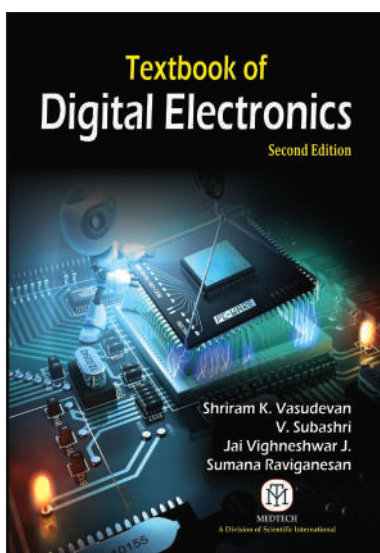
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- ♦ Concepts of Information Discrete Sources – Entropy
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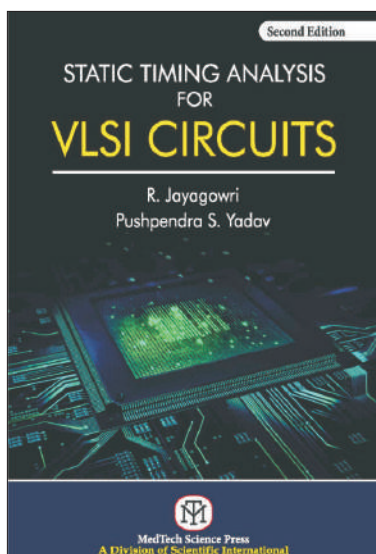
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- ♦ Combinational Logic Functions ♦ Flip-Flops—A Detailed Discussion
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Static Timing Analysis for VLSI Circuits

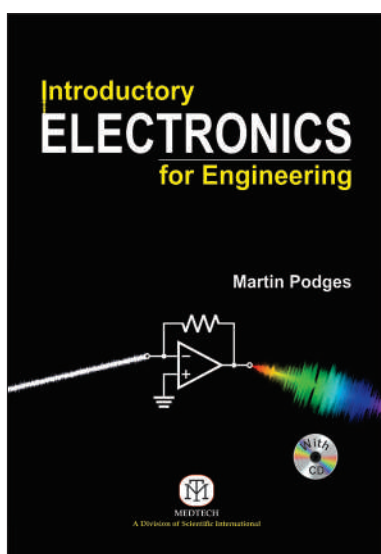
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- ♦ Resources for Static Timing Analysis Flow
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- ♦ Constraints for STA
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- ♦ Objective Type Questions

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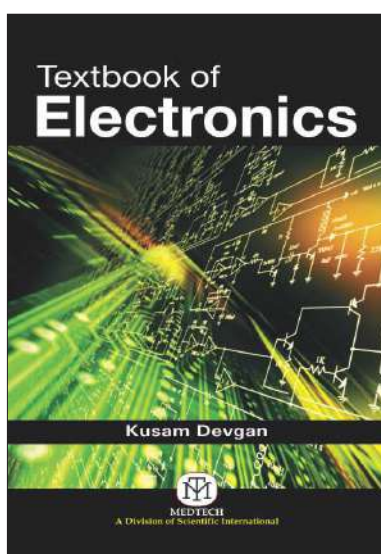
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Martin Podges

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- ♦ Diode Characteristics
- ♦ Diode Applications
- ♦ Transistor Theory
- ♦ Transistor Characteristics
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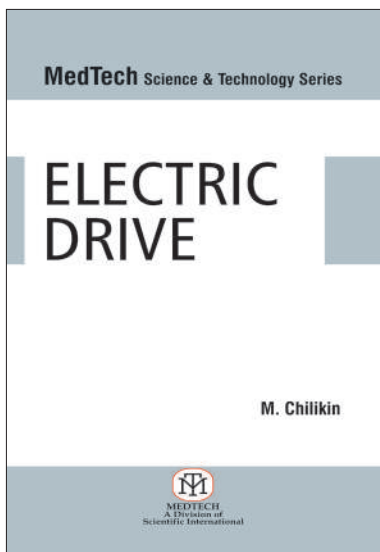
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- ♦ Electrical Network Analysis
- ♦ Semiconductor: Junction Diodes
- ♦ Diode-Rectifiers and Filters
- ♦ Bipolar Junction Transistors
- ♦ Field Effect Transistors (FETs)
- ♦ Amplifiers
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Electric Drive

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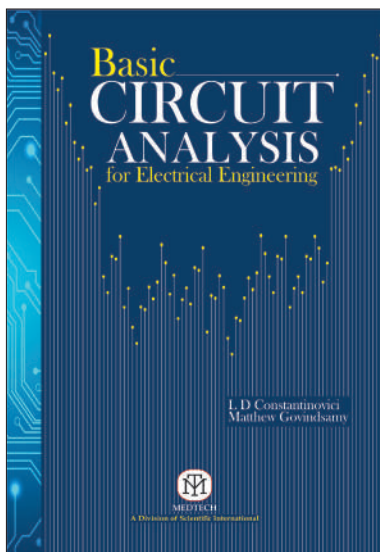
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- ♦ Speed Control of Electric Drives
- ♦ Special Forms of Electric Drives
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- ♦ Motor Power Rating Selection and Load Diagrams

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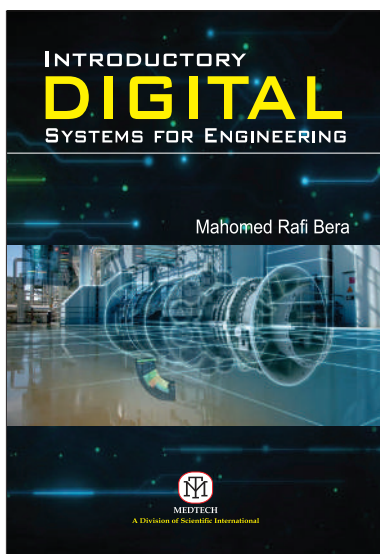
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- ♦ Resonant Circuits
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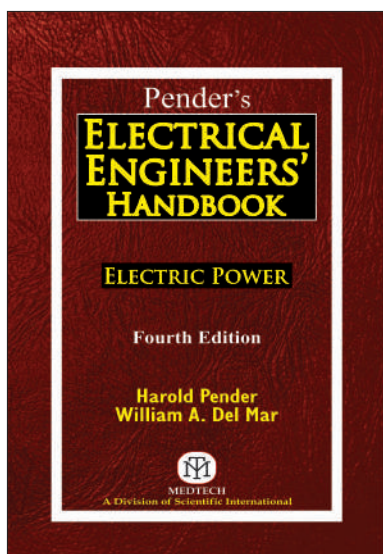
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- Unit II: Basic Logic Functions
- Unit III: Working with Logic Functions
- Unit IV: The NAND and NOR Logic Gates
- Unit V: Simplification using Boolean Algebra
- Unit VI: Simplification using Karnaugh Maps
- Unit VII: Basic Combinational Logic Circuits
- Unit VIII: Application of Combinational Logic
- Unit IX: Sequential Logic Circuits
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- Appendix 2: Sample Data Sheets
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- Appendix 4: Answers to Self-evaluation Exercises
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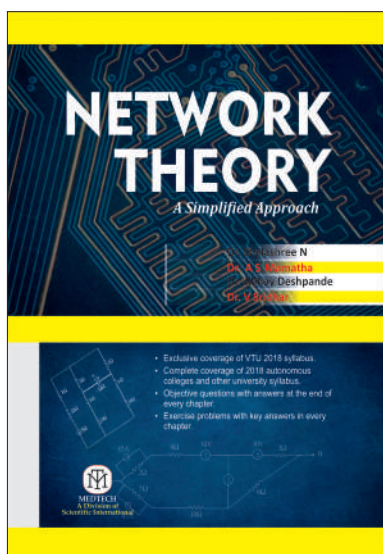
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Network Theory

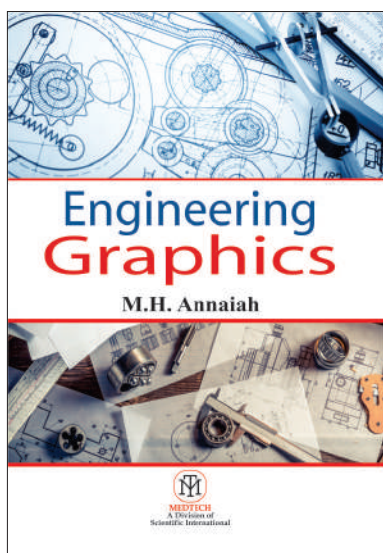
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• Dr Abhay Deshpande • Dr V Sridhar

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Module 2: Network Theorems
Module 3: Transient Behavior and Initial Conditions
Module 4: Laplace Transformation and Applications
Module 5: Two Port Network Parameters
Module 6: Resonance
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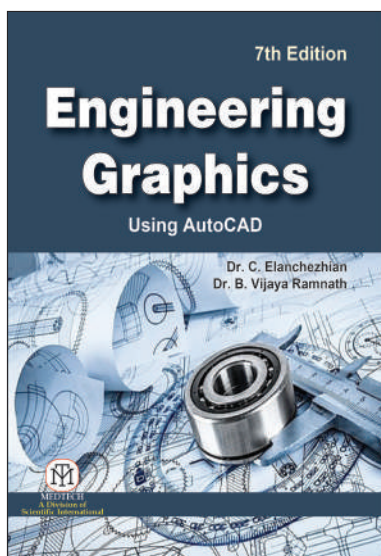
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Module II — Chapters 1-4 ♦ Orthographic Projections ♦ Projection of Points ♦ Projection of Lines
♦ Projection of Plane Surfaces (Laminae)
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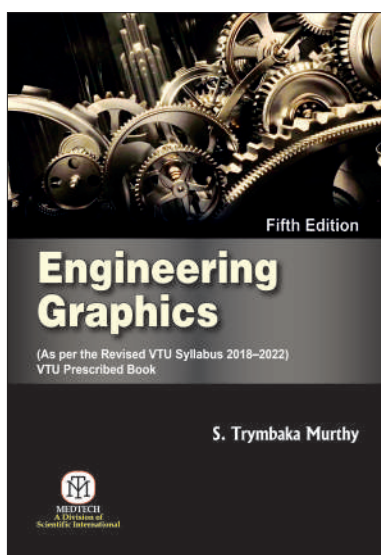
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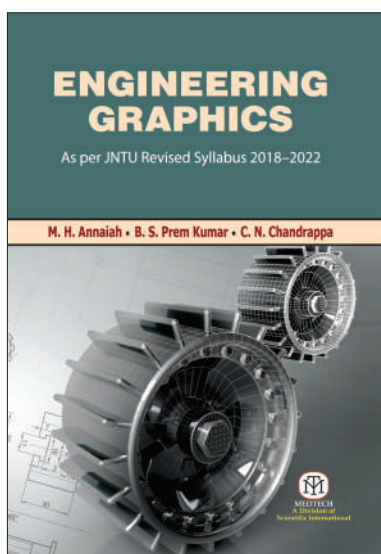
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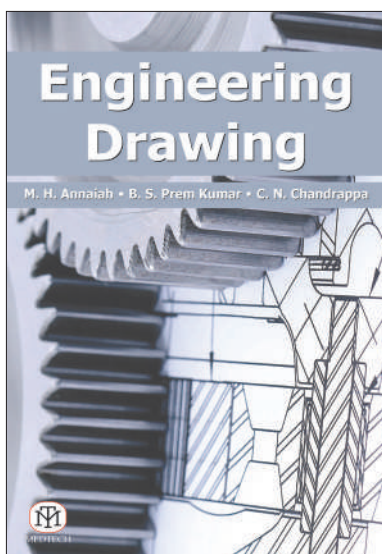
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- ♦ Drawing Instruments and Their Uses
- ♦ Instruments and their Uses
- ♦ Line types, Dimensions and Lettering
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- ♦ Isometric Projections

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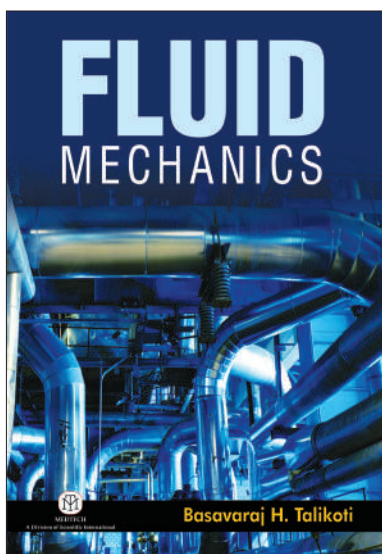
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- ♦ Isometric Projections

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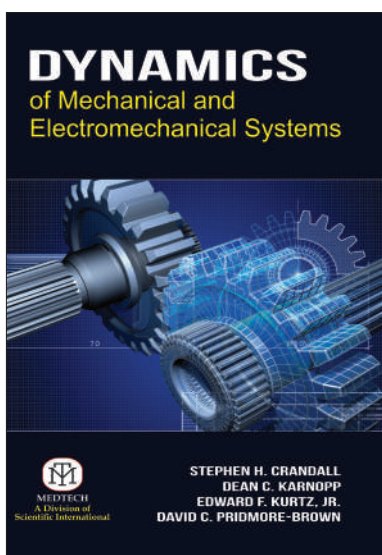
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- ♦ Laminar and Turbulent Flow
- ♦ Flow Over Bodies and Dimensional Analysis
- ♦ Compressible Flows and Introduction to CFD
- ♦ Important Theory Questions Chapterwise
- ♦ Previous Year's Question Paper Solved
- ♦ Index

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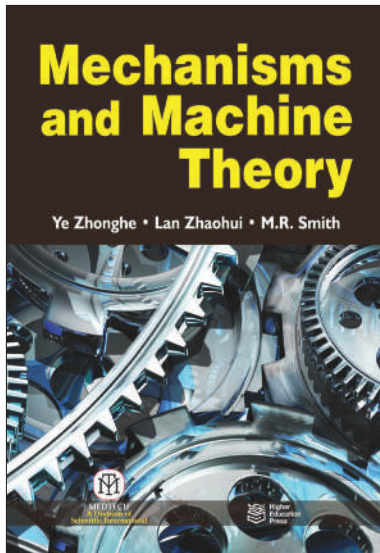
Dynamics of Mechanical and Electromechanical Systems

Stephen H Crandall et al

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- ♦ Dynamics of Mechanical Systems
- ♦ Dynamical Properties of a Rigid Body
- ♦ Dynamics of Systems Containing Rigid Bodies
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- ♦ Dynamics of Continuous Systems
- ♦ Dynamics of Fluid Systems
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- ♦ Index

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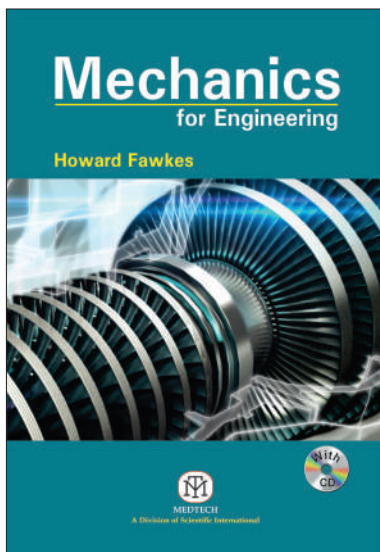
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Ye Zhonghe • Lan Zhaohui • MR Smith

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- ♦ Structural Analysis of Planar Mechanisms
- ♦ Kinematic Analysis of Mechanisms
- ♦ Planar Linkage Mechanisms
- ♦ Can Mechanisms
- ♦ Gear Mechanisms
- ♦ Gear Trains
- ♦ Other Mechanisms in Common Use
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- ♦ Balancing of Machinery
- ♦ Motion of Mechanical Systems and its Regulation
- ♦ Creative Design of Mechanism Systems

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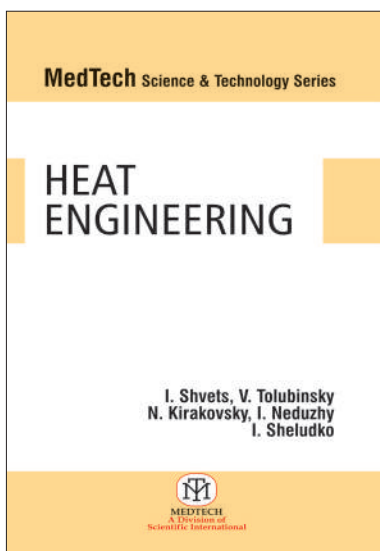
Mechanics for Engineering

Howard Fawkes

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- ♦ Forces
- ♦ Moments
- ♦ Centres of Gravity and Centroids
- ♦ Friction
- ♦ Internal Forces
- ♦ Rectilinear Motion
- ♦ Angular Motion
- ♦ Centripetal Force and Acceleration
- ♦ Work, Energy and Power
- ♦ Momentum and Impulse
- ♦ Lifting Machines

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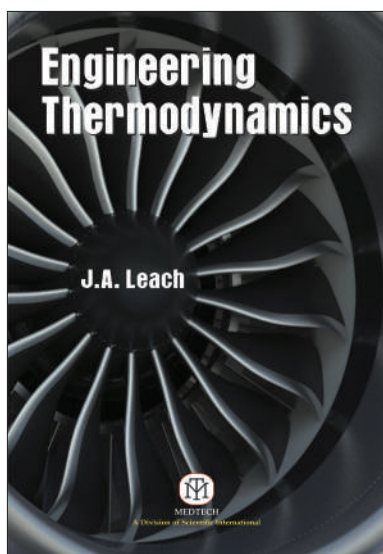
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I Shvets • V Tolubinsky • N Kirakovsky • I Neduzhy • I Sheludko

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- Part I** Engineering thermodynamics ♦ Basic Concepts of Thermodynamics and Definitions ♦ The First Law of Thermodynamics ♦ Investigation of Basic Thermodynamic Processes ♦ Water Vapour and Steam ♦ Flow and Throttling of Gases and Vapours ♦ The Second Law of Thermodynamics
- Part II** Fundamentals of heat transfer II ♦ Conduction ♦ Convection ♦ Thermal Radiation ♦ Complex Processes of Heat Transfer ♦ Heat-Exchange Equipment
- Part III** Boiler plants ♦ General Information on Boiler Plants and Boiler ♦ Fuel 164 III-4 Kinds of Fuel ♦ Combustion of Fuel and Gas Calculations ♦ Heat Balance of Boiler Unit
- Part IV** Reciprocating engines ♦ Types of Reciprocating Engines and Their Working Processes ♦ Construction of Internal-Combustion Engines ♦ Calculation of Engines ♦ Mixture Formation and Engine Governing ♦ Engine Accessories ♦ Types of Engines
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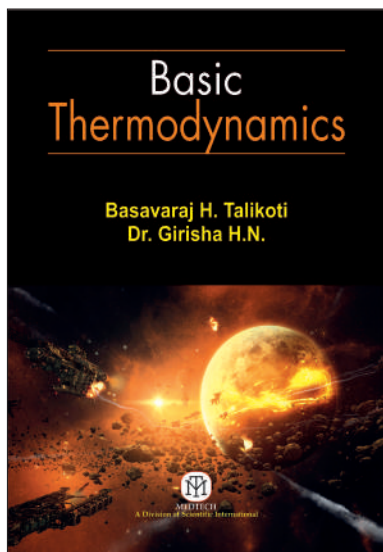
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JA Leach

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- ♦ Heating of Gases
- ♦ Steam
- ♦ Throttling of Steam
- ♦ Boilers
- ♦ Steam Plant
- ♦ Condensers and Air Pumps
- ♦ Combustion of Fuels
- ♦ Heat Transfer
- ♦ Glossary
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Module 2

- ♦ First Law of Thermodynamics
- ♦ Second Law of Thermodynamics

Module 3

- ♦ Reversibility
- ♦ Entropy

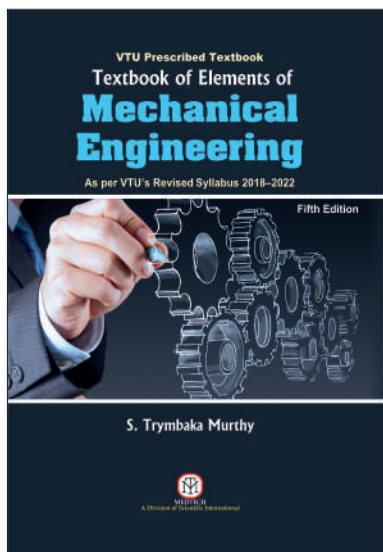
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- ♦ Pure Substance

Module 5

- ♦ Ideal and Real Gases

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Module 3

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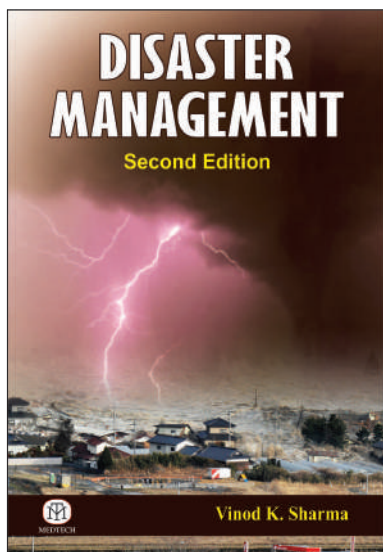
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Disaster Management

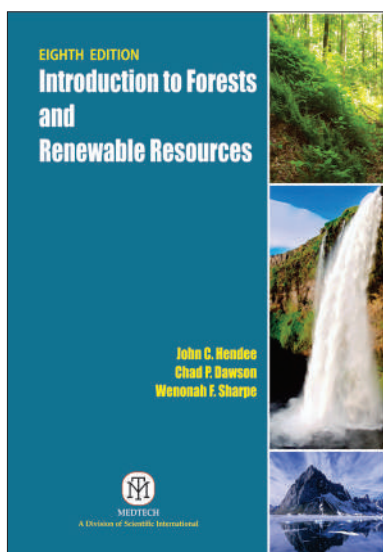
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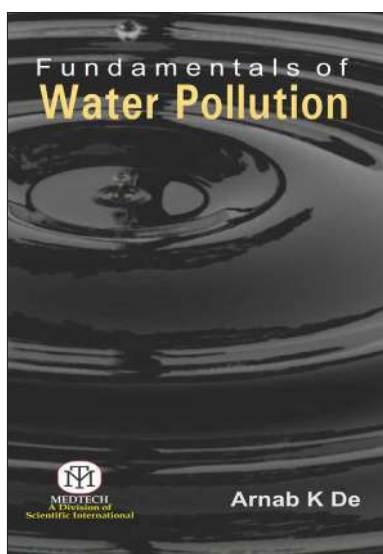
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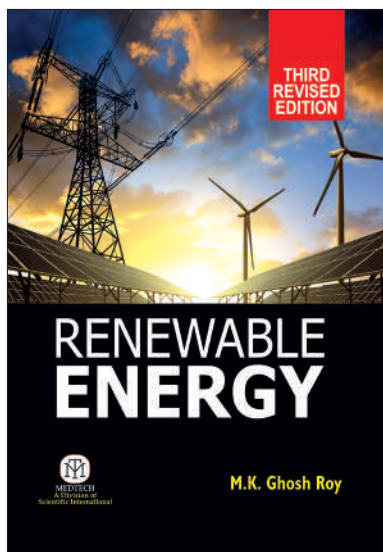
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Arnab K De

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 ♦ 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

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Renewable Energy

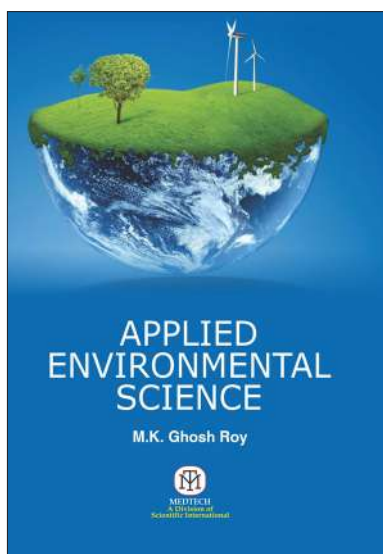
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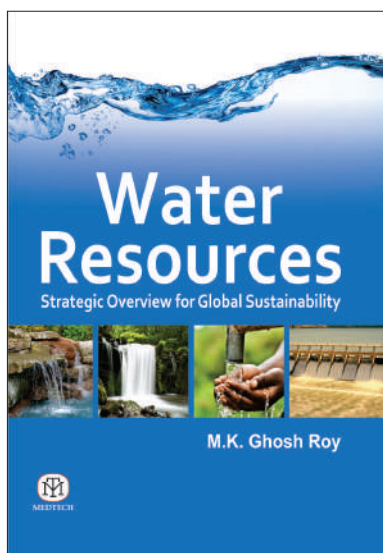
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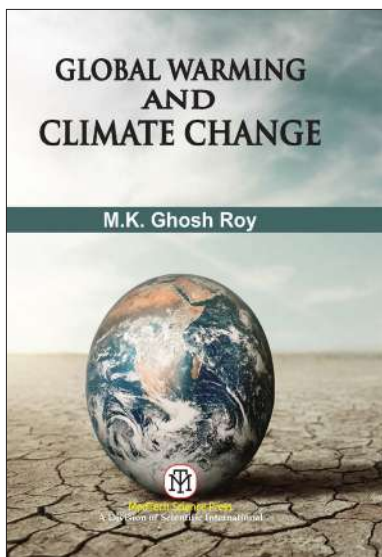
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 ♦ Some International Water Conflicts
 ♦ Wetland—Issues of Eco-Sustainability
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- ♦ Inter-year Climate Change: El Nino and Other Ocean-air Interaction
- ♦ Physical Laws and General Circulation Modelling
- ♦ 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

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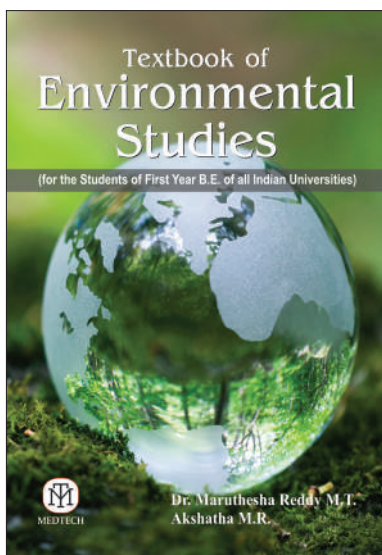
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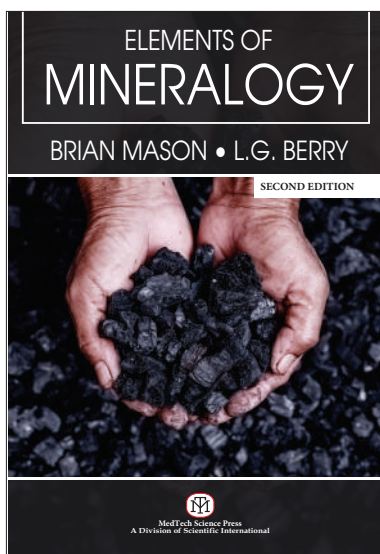
Textbook of Environmental Studies

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- ♦ 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
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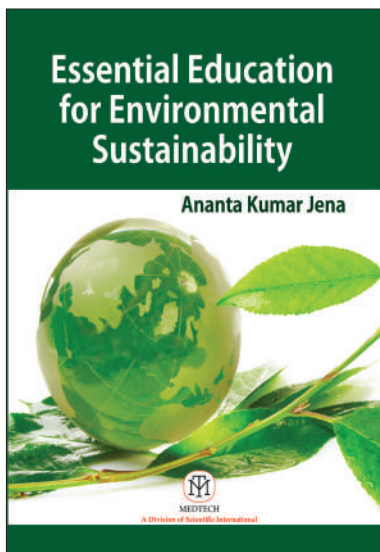
Part II : Descriptions

- ♦ Class I: Native Elements ♦ Class II: Sulfides ♦ Class III: Oxides and Hydroxides
- ♦ Class IV: Halides ♦ Class V: Carbonates, Nitrates, Borates
- ♦ Class VI: Sulfates, Chromates, Molybdates, Tungstates ♦ Class VII: Phosphates, Arsenates, Vanadates
- ♦ Class VIII: Silicates

Part III : Determinations

- ♦ Determinative Tables

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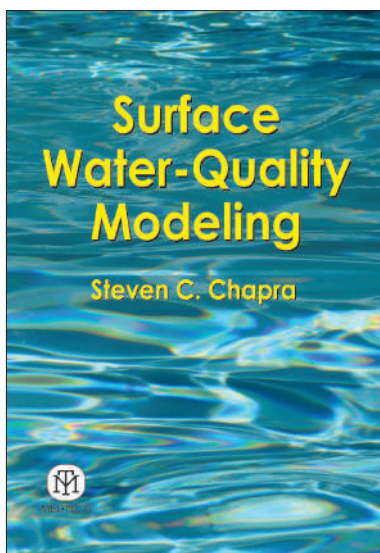
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- ♦ Energy Resources
- ♦ Industrialization and Urbanization
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- ♦ Waste Management
- ♦ Wetland and Marshy Land Management
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- ♦ Natural Hazards
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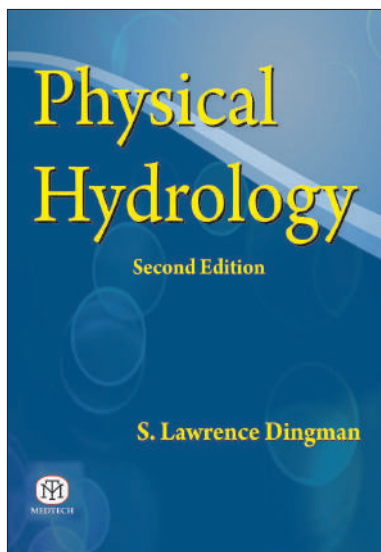
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Steven C Chapra

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- ♦ 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
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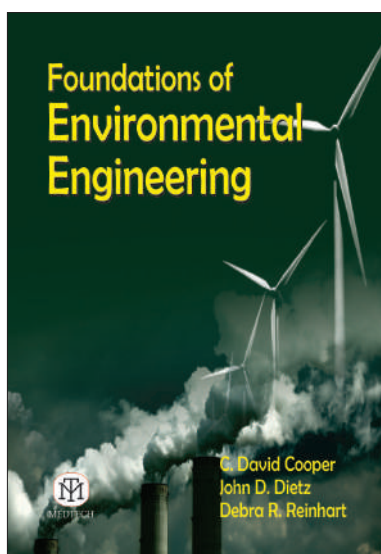
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- ♦ Evapotranspiration
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- ♦ Stream Response to Water-Input Events
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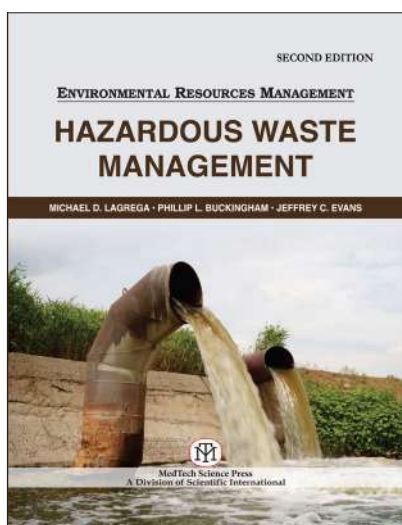
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- ♦ Mathematical and Physical Foundations
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- ♦ Water Resources
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- ♦ Pollution Prevention ♦ Facility Development and Operations

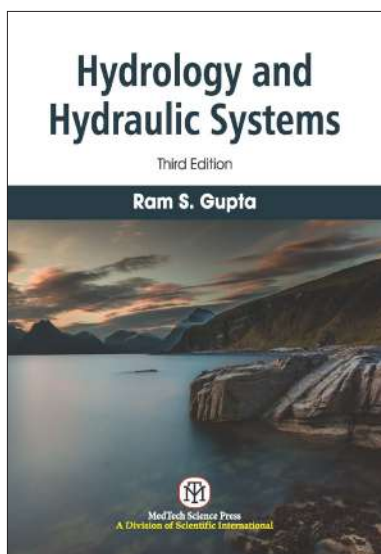
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Hydrology and Hydraulic Systems

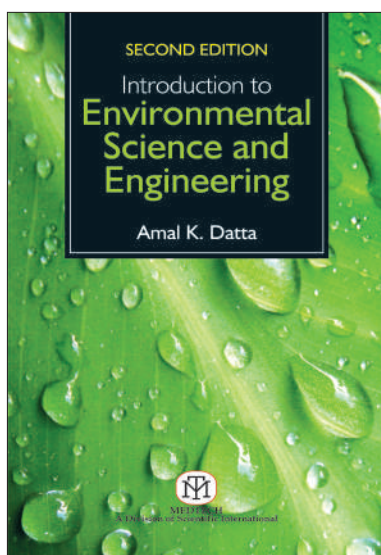
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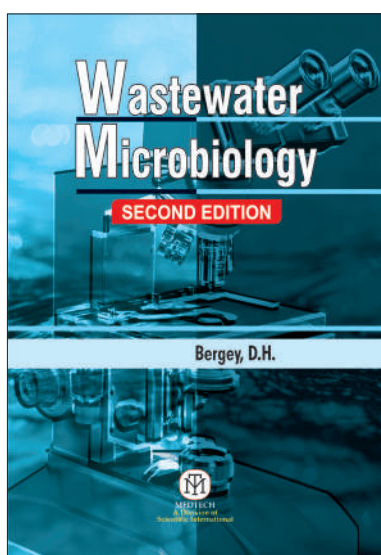
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- ♦ Microbial Source Tracking ♦ Wastewater Disinfection
- ♦ Wastewater Treatment ♦ Reuse of Wastewater ♦ Waste Stabilisation Ponds
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- ♦ Public Health Aspects of Contamination of Recreation Waters with Wastewater
- ♦ Fate of Xenobiotics and Toxic Metals in Waste Treatment Plant
- ♦ Toxicity Testing in Wastewater Treatment Plants using Micro-organisms
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Geological Earth Science

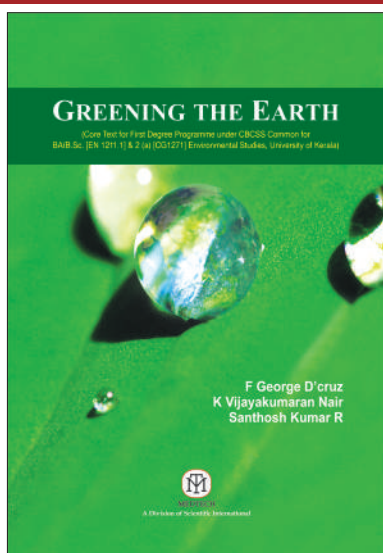
Geology, Mineralogy & Soil Science

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F George D'cruz • KV Nair • Santhosh Kumar R

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- ♦ Environmental Pollution
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- ♦ Human Population and the Environment
- ♦ Literature and the Environment
- ♦ Appendix I–V



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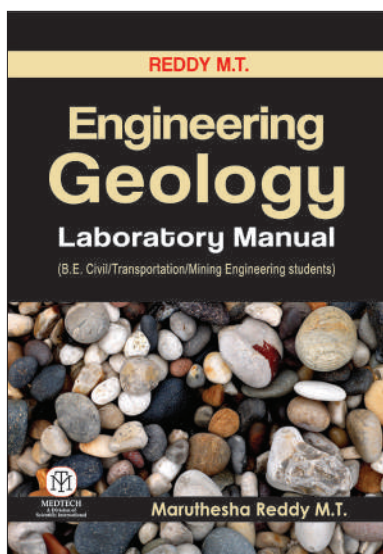
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Maruthesha Reddy MT

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- ♦ Mineralogy
- ♦ Petrology (Greek, Petra = Rock, Logos = Science)
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- ♦ Role of Geology in the Field of Engineering
- ♦ Glossary of Technical Terms
- ♦ Model Question Paper
- ♦ Index



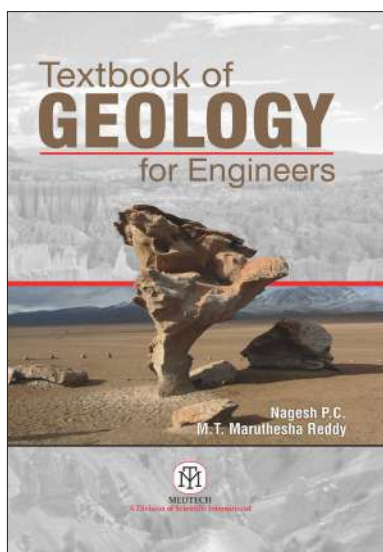
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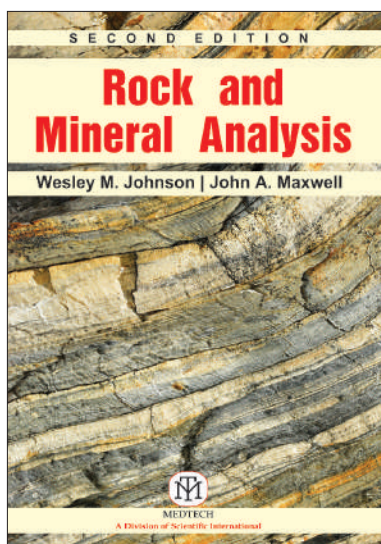
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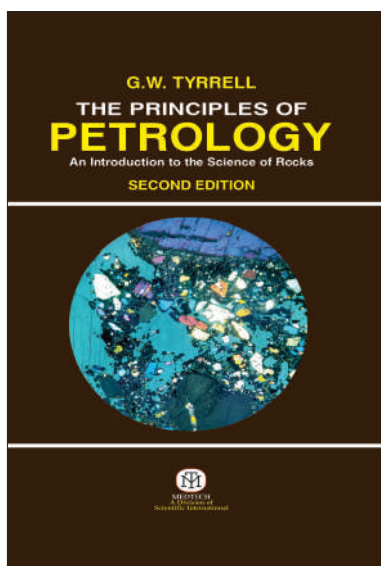
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- ♦ Sampling and Sample Preparation ♦ Sample Decomposition
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- ♦ The Determination of Trace Constituents in Rocks and Minerals by Atomic Absorption Spectroscopy
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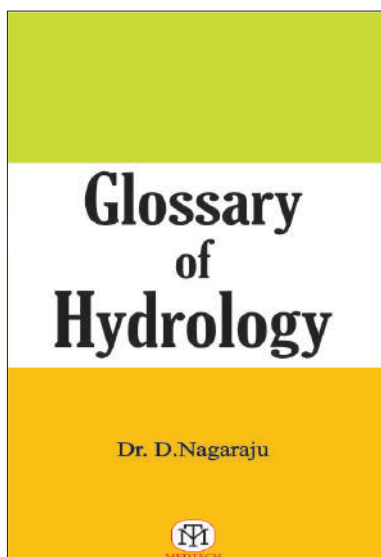
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Glossary of Hydrology

Prof D Nagaraju

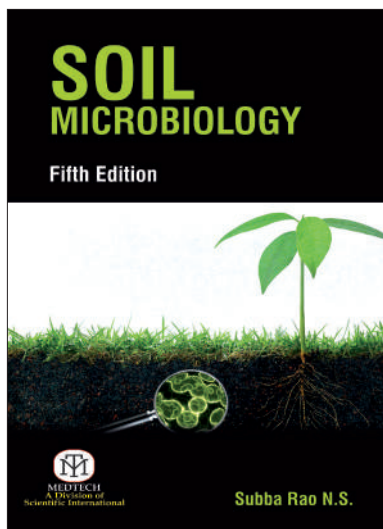
The dictionary covers a wide range of words and technical terms frequently used in the field of hydrogeology. Geohydrology, which deals with the analytical methods of fluid dynamics in the geological and related laboratory context, groundwater exploration through geophysical methods, aquifer development and exploitation through well drilling and completion methods. One part of the hydrological cycle has a direct bearing on the ground water situation that includes hydrometeorology, surface hydrology, hydrogeochemistry and water quality. In the recent years many new terms have been introduced or adopted from other fields in an interdisciplinary approach to the subject matter.

The dictionary is suitable for reference to the hydrogeologist, hydrologist, earth scientist, engineer and water resources planner, who have to keep with the scientific and other literature in the respective languages. The dictionary will be of immense use to all geo-scientists, hydrologists and environmentalists, irrigation engineers and administrators in their routine work for their decision making.

Contents

- ♦ Preface
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Soil Microbiology

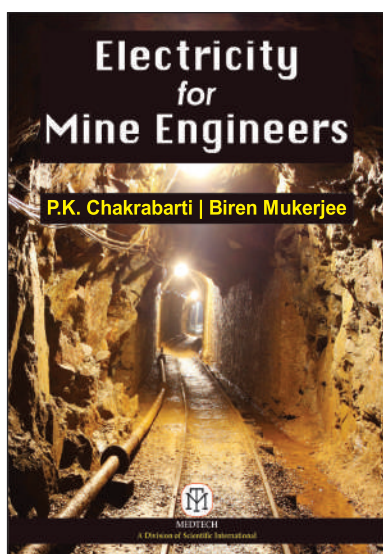
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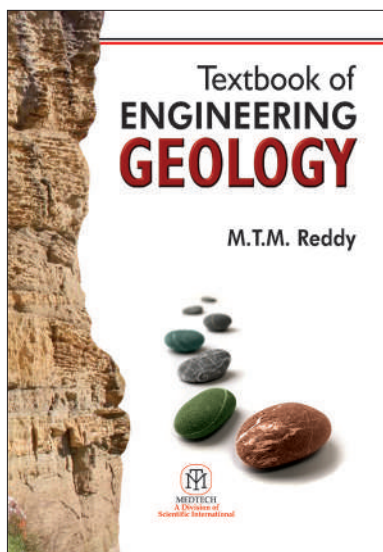
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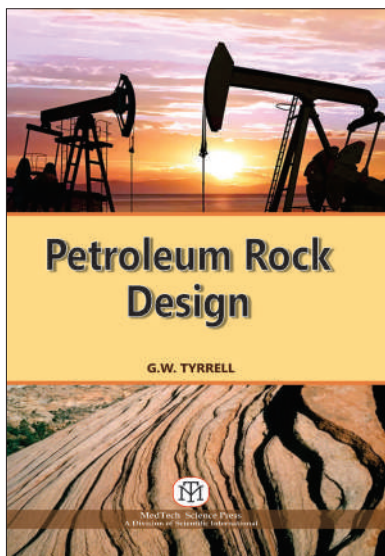
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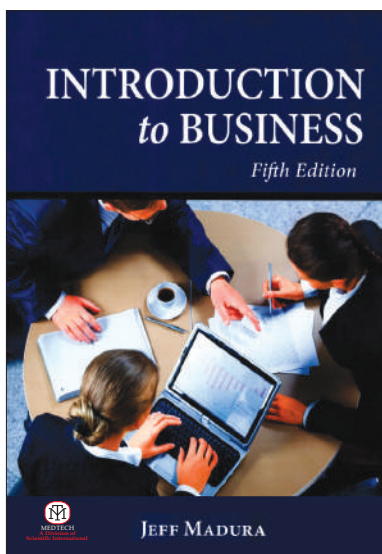
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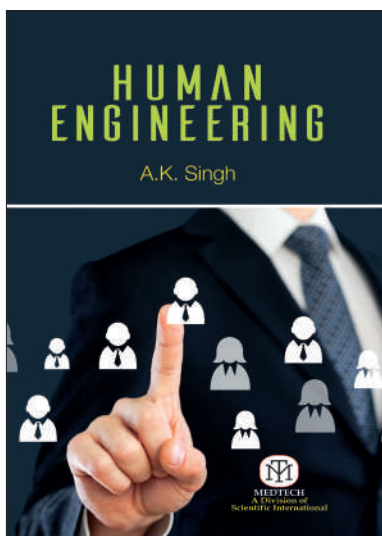
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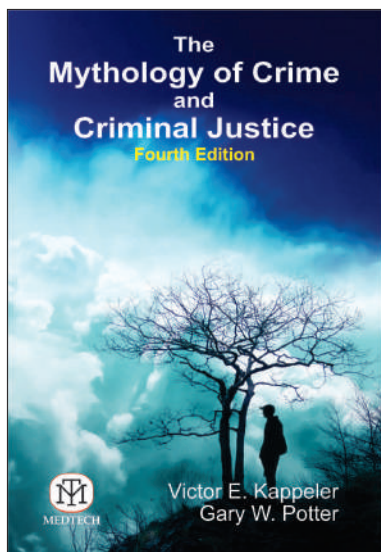
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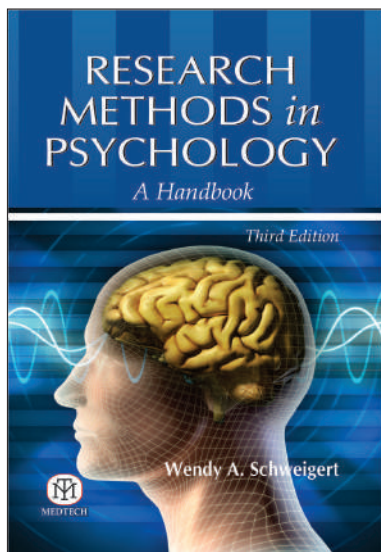
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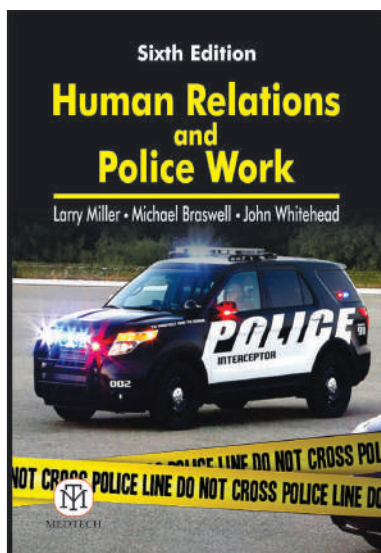
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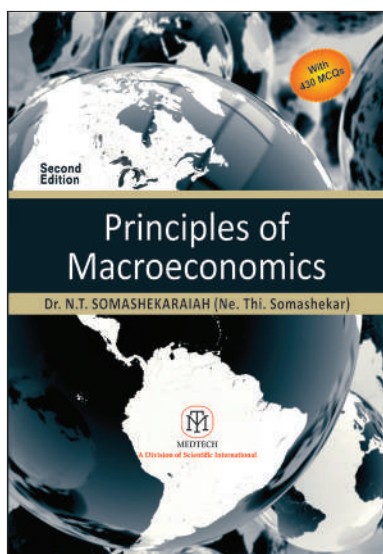
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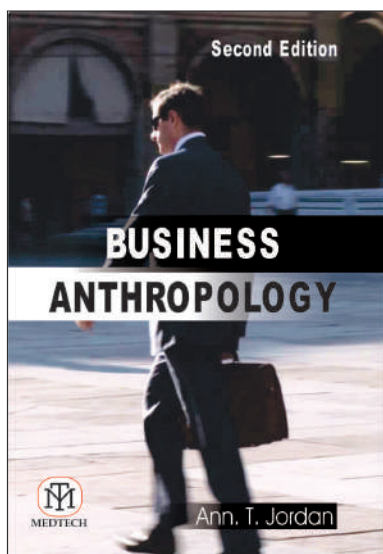
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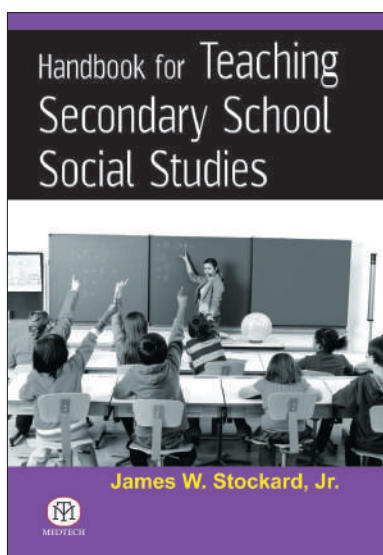
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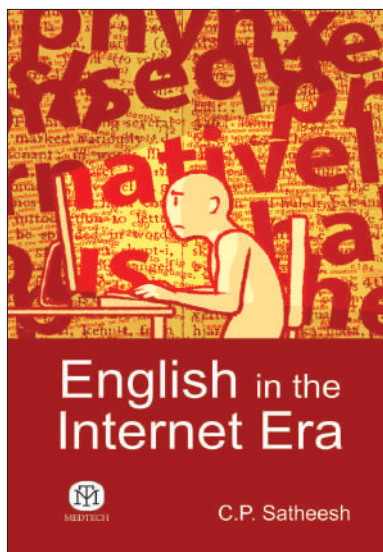
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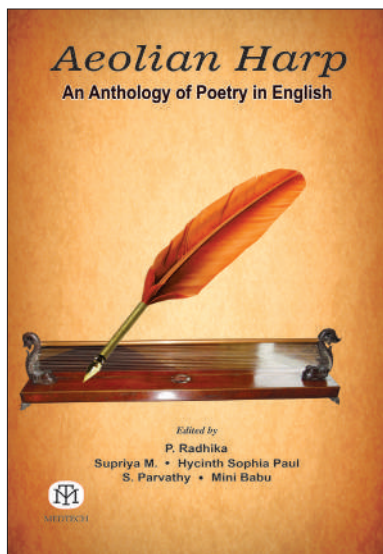
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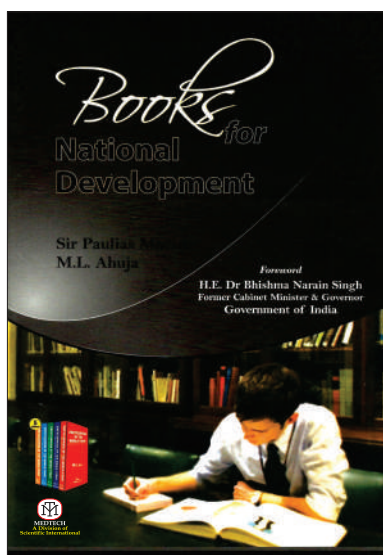
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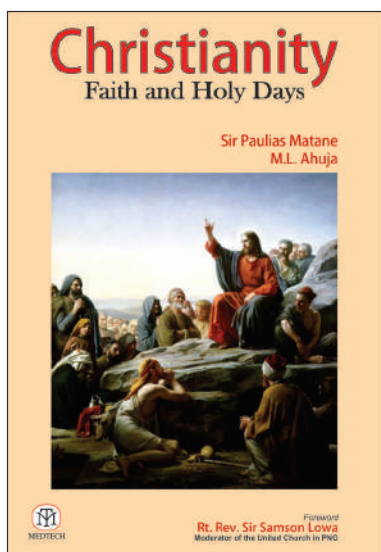
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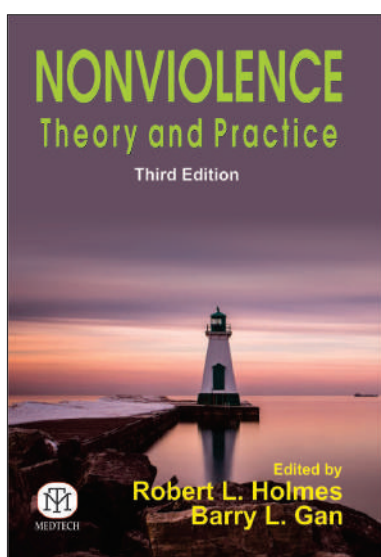


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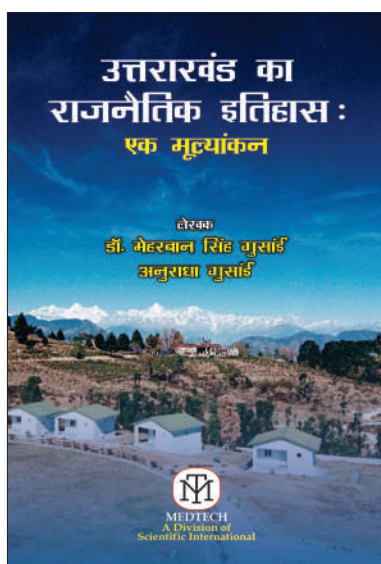
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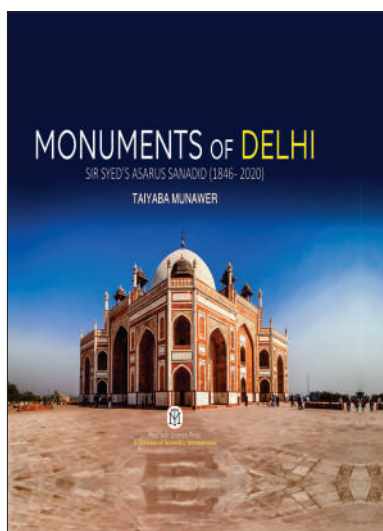
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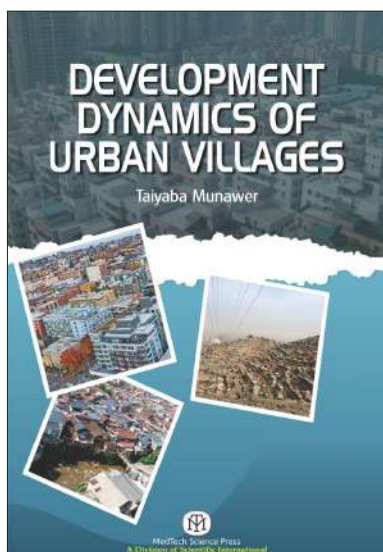
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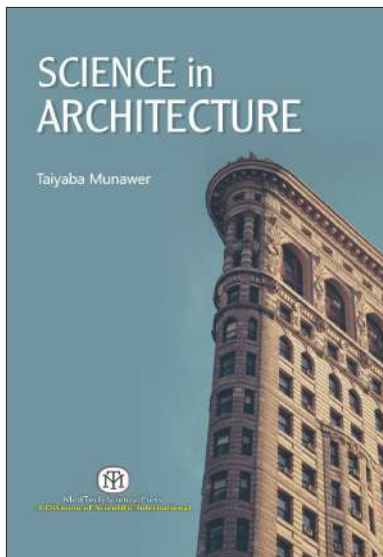
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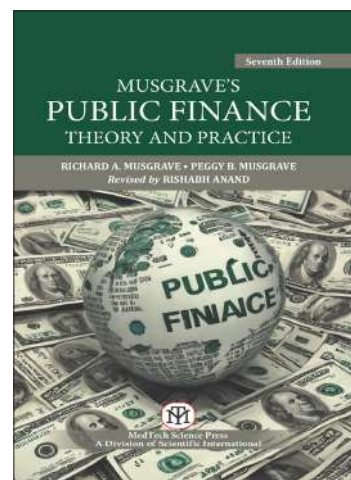
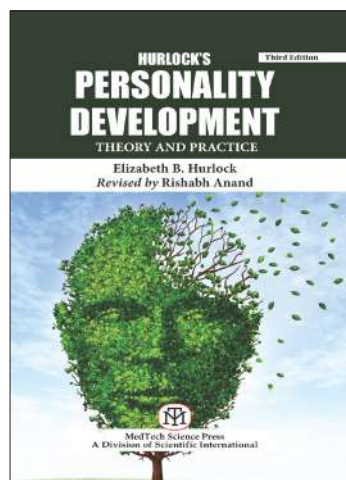
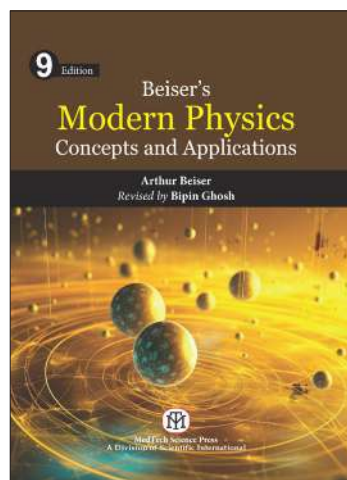
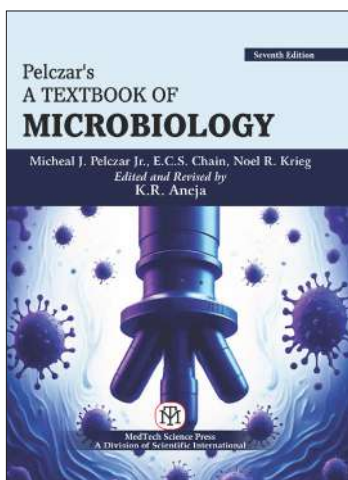
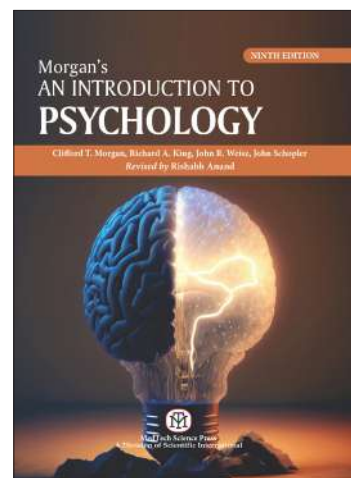
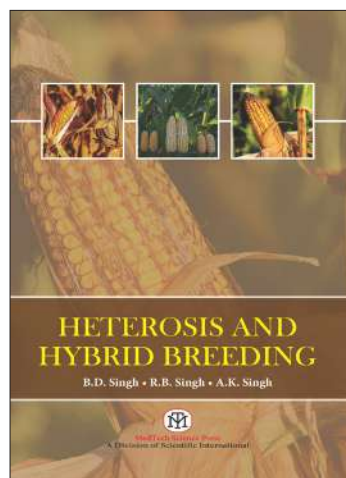
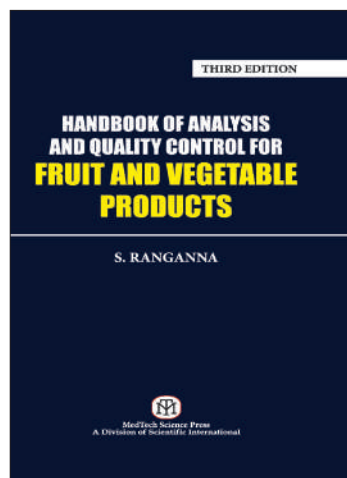
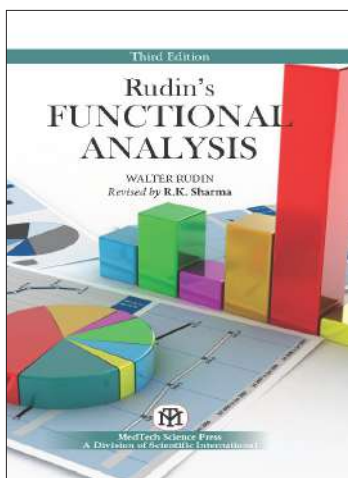
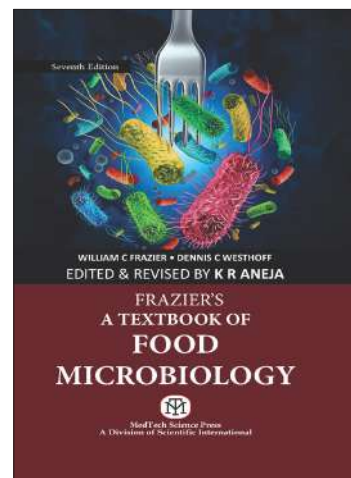
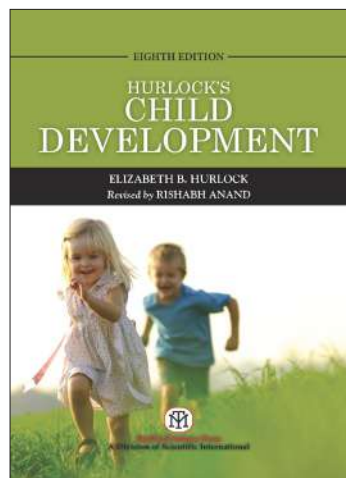
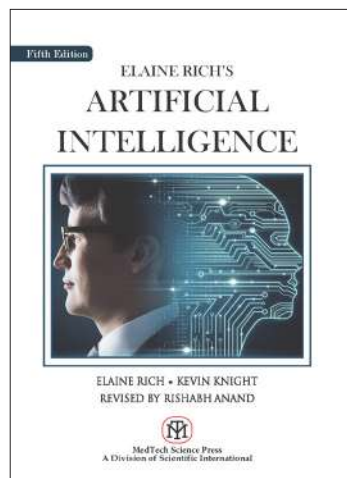
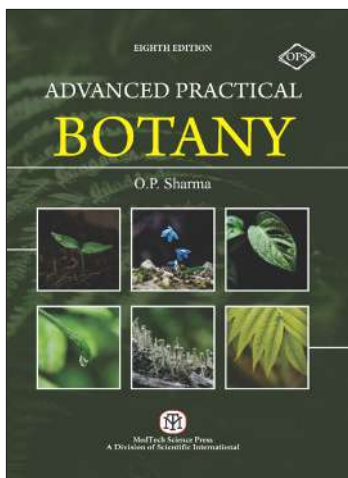
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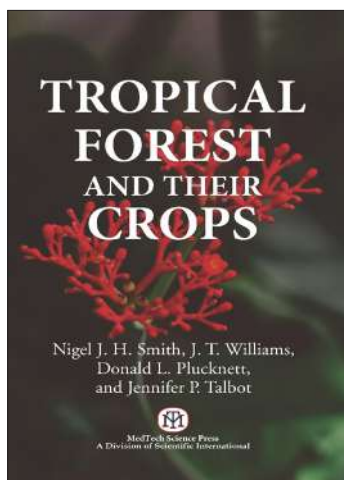
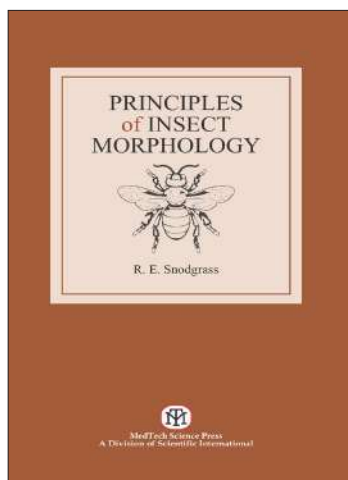
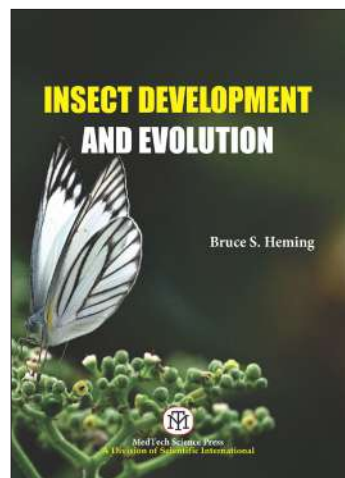
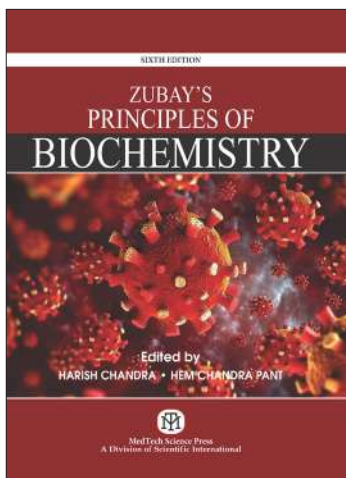
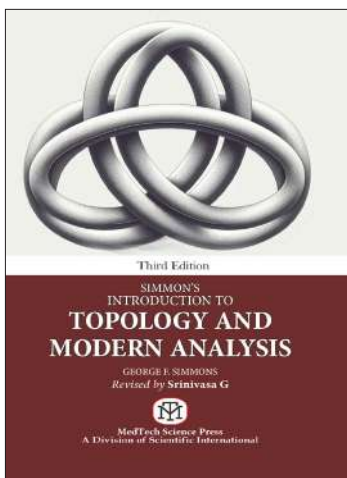
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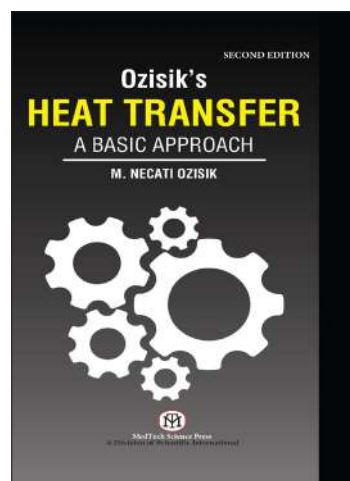
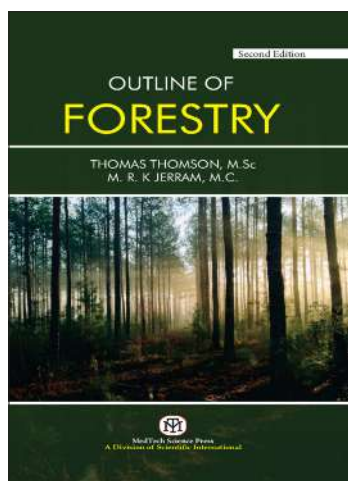
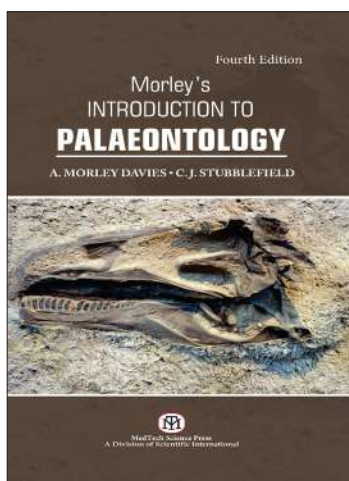
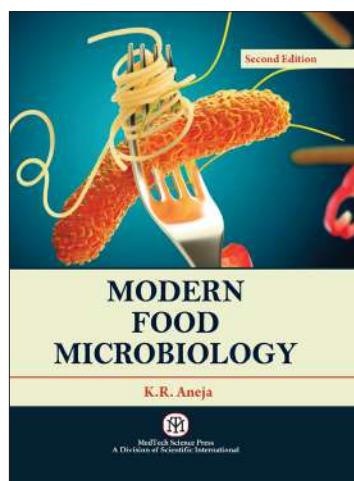
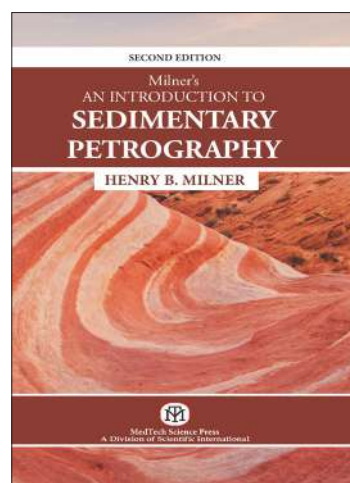
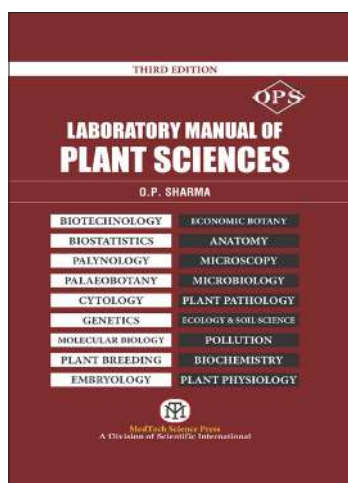
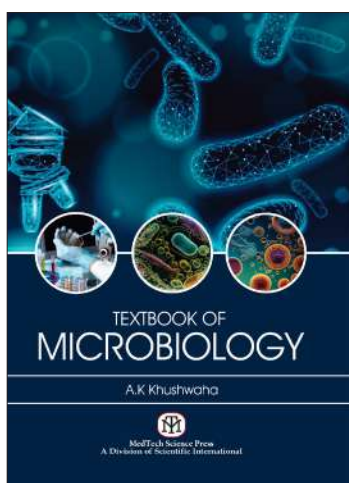
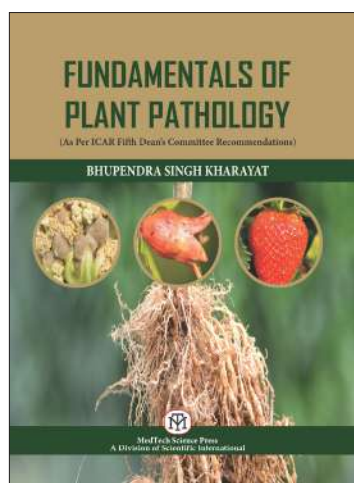
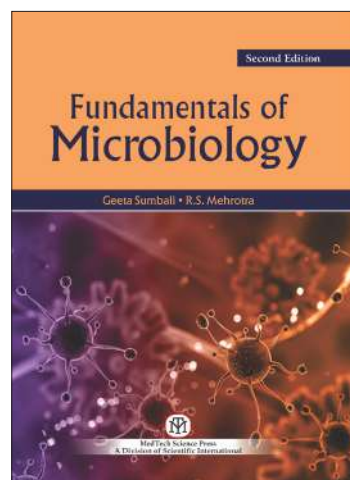
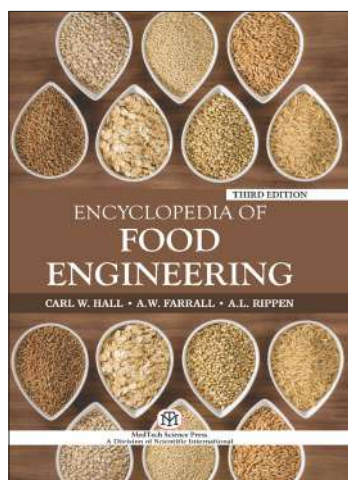
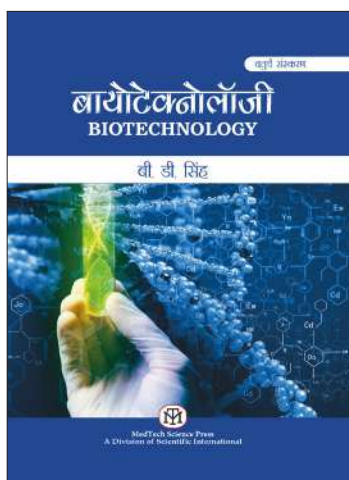
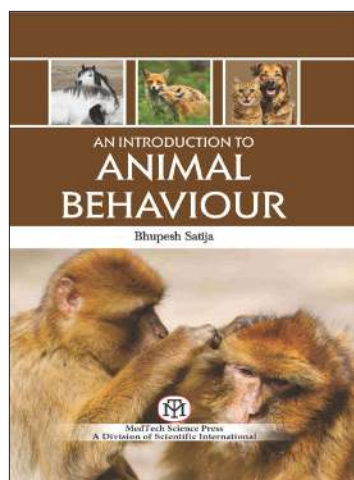
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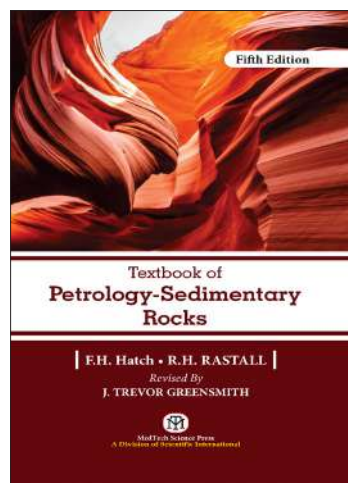
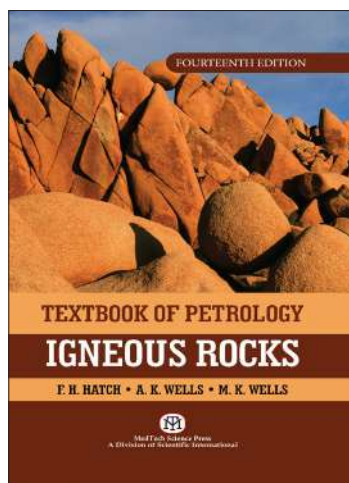
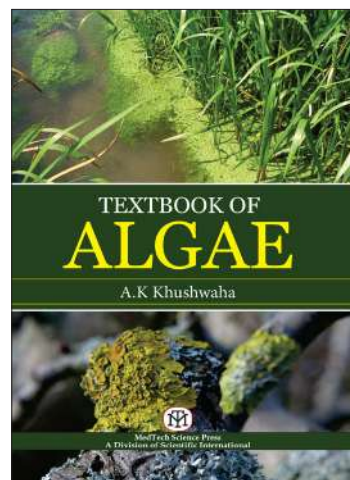
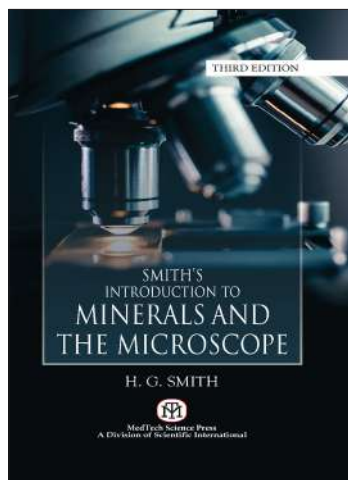
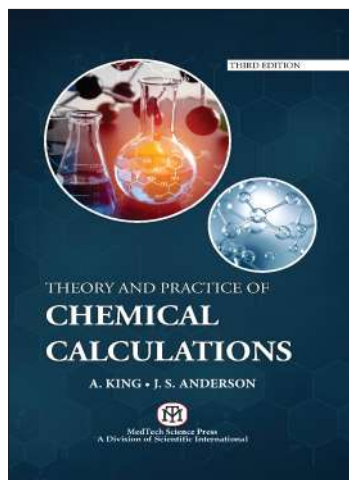
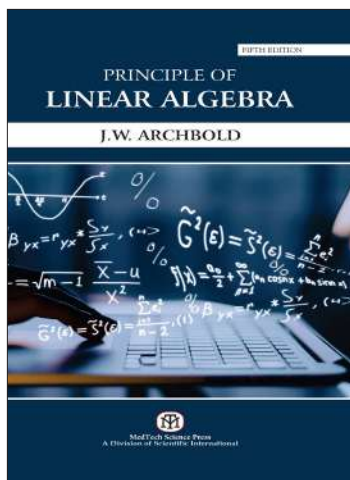
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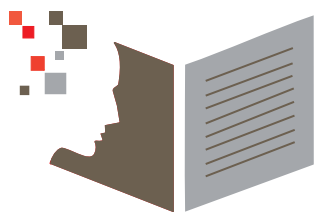


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