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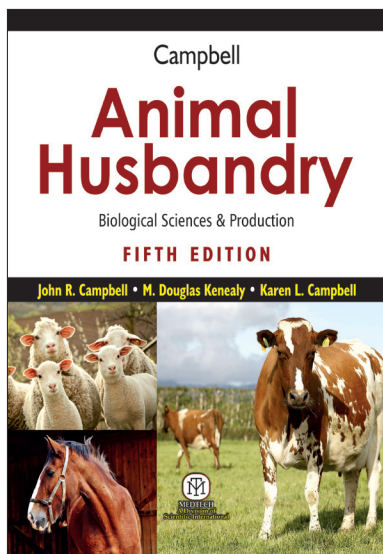
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# Life Sciences

Animal Sc., Agricultural Sc., Biological Sc., Biotechnology, Botany, Fisheries, Food Sc. & Zoology



## Animal Husbandry Biological Sciences & Production

John R Campbell • M Douglas Kenealy  
Karen L Campbell

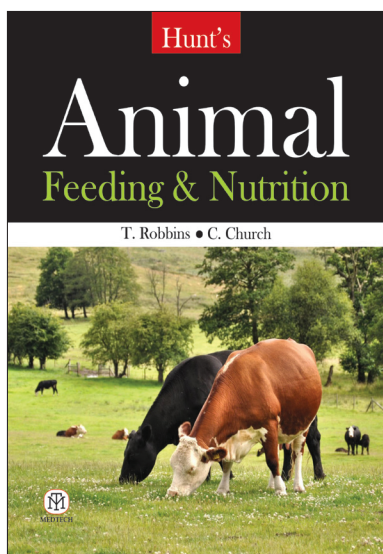
5th Edition

### Contents

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



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## HUNT'S Animal Feeding & Nutrition

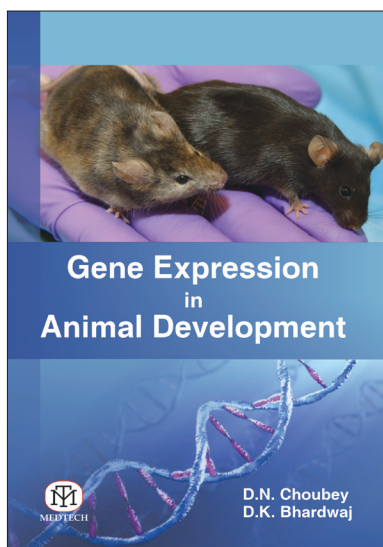
T Robbins • C Church



### Contents

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

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DN Choubey • DK Bhardwaj

### Contents

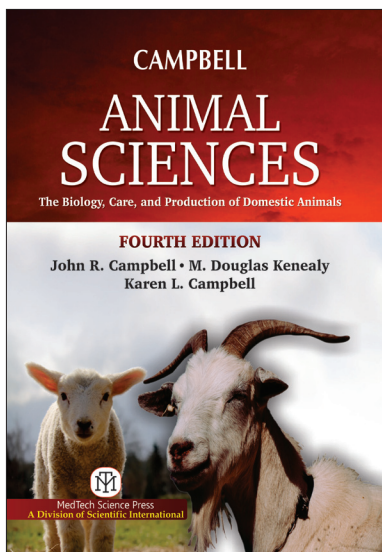
- ◆ Introduction
- ◆ Nuclear Transplantation and Somatic Cell Genes
- ◆ Translational Control and Message-Injection into Living Cells
- ◆ Gene Transcription and the Initiation of Cell Differentiation
- ◆ General Conclusions
- ◆ Appendix
- ◆ Glossary
- ◆ References and Author Index
- ◆ Subject Index

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John R Campbell *et al*

4th Edition



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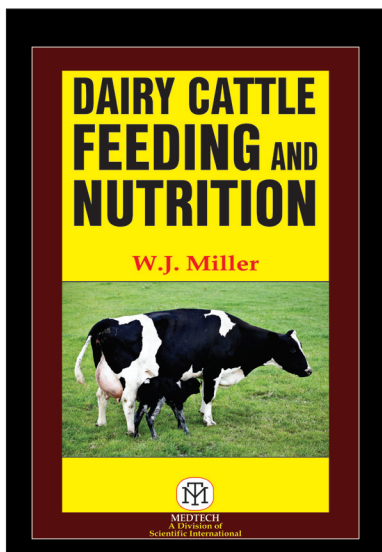
## Dairy Cattle Feeding and Nutrition

WJ Miller

### Contents

- ◆ Introduction and Utilization of Nutrients by Dairy Cattle ◆ Energy Requirements of Dairy Cattle
- ◆ Protein Requirements of Dairy Cattle ◆ The Use of Nonprotein Nitrogen (NPN) of Dairy Cattle ◆ Vitamin Requirements of Dairy Cattle ◆ Fat (Liquids) and Water Requirements and Utilization by Dairy Cattle
- ◆ Fiber Utilization and Requirements of Dairy Cattle ◆ Forages and Roughages for Dairy Cattle ◆ Concentrates, By-Products, and Other Supplements for Dairy Cattle ◆ Nonnutritive Additives and Constituents
- ◆ Evaluation of Feeds for Dairy Cattle ◆ Feeding the Milking Herd ◆ Feeding and Raising the Young Dairy Calf ◆ Feeding and Management of Heifers, Dry Cows, and Bulls ◆ Feeding and Nutrition of Veal Calves
- ◆ Raising and Feeding Dairy Beef for Meat Production ◆ Nutritional and Metabolic Disorders of Dairy Cattle ◆ Integrating the Feeding and Nutrition of Dairy Cattle into Practical Feeding Programs for Individual Farms

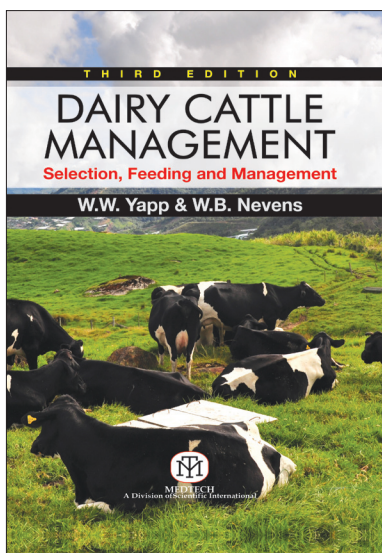
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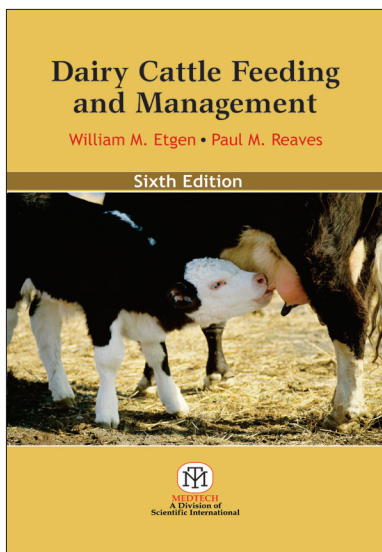


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- ◆ Shall I be a Dairy Farmer? ◆ Factors Affecting The Returns from the Dairy Enterprise ◆ Selecting the Dairy Cow ◆ Choosing a Breed ◆ Determining Milk and Butterfat Yields ◆ Studying the Principles of Heredity ◆ Feeding and Developing Dairy Heifers ◆ Feeding and Managing the Dairy Bull ◆ Managing the Dairy Herd ◆ Preserving and Preparing Roughages for Dairy Cattle Feeding ◆ Caring for and Marketing Dairy Products from the Farm ◆ Rearing the Dairy Calf ◆ Applying the Principles of Heredity to Dairy Cattle Breeding ◆ Feeding the Dairy Cow During the Winter Season ◆ Feeding the Dairy Cow During the Pasture Season ◆ Treating the Ailments of Dairy Cattle ◆ Keeping Business Accounts with the Dairy Herd
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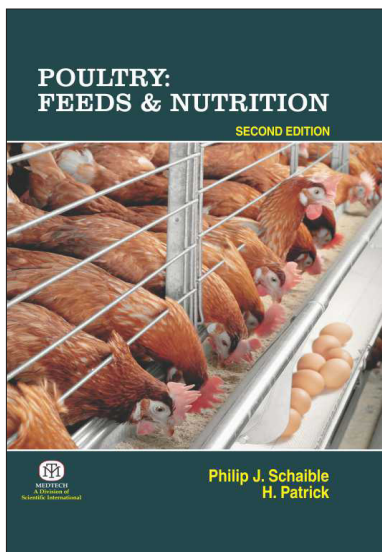
## Dairy Cattle Feeding and Management

William M Etgen • Paul M Reaves

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- ◆ The Dairy Industry ◆ Dairy Herd Records ◆ The Business of Dairying ◆ Feeding Dairy Cattle ◆ Nutrient Requirements of Dairy Cattle ◆ Forages for Dairy Cattle: Pasture, Hay, Silage ◆ Concentrates for Dairy Cattle ◆ Formulating Rations for Dairy Cattle ◆ Principles of Dairy Cattle Breeding ◆ Maintaining Breeding Efficiency ◆ Artificial insemination of Dairy Cattle ◆ Milk Secretion and Milking ◆ Herd Health ◆ Herd Replacements ◆ Dairy Buildings—Types and Arrangements ◆ Herdsmanship and Labor Management ◆ Production of High-Quality Milk ◆ Marketing Milk ◆ Establishing a Dairy Herd ◆ Expanding the Dairy Herd ◆ The Purebred Dairy Cattle Business ◆ Marketing Dairy Cattle ◆ Fitting Dairy Animals for Show and Sale ◆ Some Details in Dairy Cattle Management

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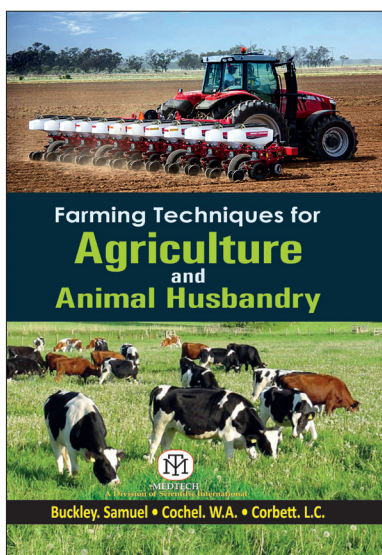
Philip J Schaible • H Patrick

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- ◆ The Poultry Industry ◆ Economic Structures Developed by the Poultry Industry ◆ The Feed Industry ◆ Poultry and Feed Supplies Around the World ◆ Poultry: A Biological Machine ◆ Metabolic Responses in Chicks ◆ Energy Nutrition ◆ Nutrition of Fats ◆ Nutrition of Carbohydrates ◆ Nutrition of Proteins ◆ Nutrition of Water-Soluble Vitamins ◆ Nutrition of Fat-Soluble Vitamins ◆ Nutrition of Minerals ◆ Nutrition of Water ◆ Nonnutrient Feed Additives ◆ Unrecognized Growth Factors ◆ Nutrient Interrelationships ◆ Genetics and Nutrition ◆ Adaptive Nutrition ◆ Components of the Ration ◆ Fats ◆ Carbohydrates ◆ Animal Proteins ◆ Vegetable Proteins ◆ Fermentation Products ◆ Green Plant Products ◆ Minerals ◆ Special Purpose Products ◆ Miscellaneous Products ◆ Additives ◆ Collective Terms ◆ Tentative Miscellaneous Products ◆ Toxic Contaminants ◆ Quality Control ◆ Nutritional Requirements ◆ Feeding Programs ◆ Ration Formulation ◆ Feed Manufacturing ◆ Feed Mill Design ◆ Feed Mill Sanitation ◆ Poultry Farm Sanitation ◆ Poultry Farm Management ◆ Disease Control ◆ Turkey Feeds—Feeding ◆ Game, Cage and Aviary Bird Feeds—Feeding ◆ Duck and Geese Feeds ◆ Feeding ◆ Commonly Reported Nutritional Disturbances ◆ Measurements ◆ Glossary ◆ Principal References ◆ Index

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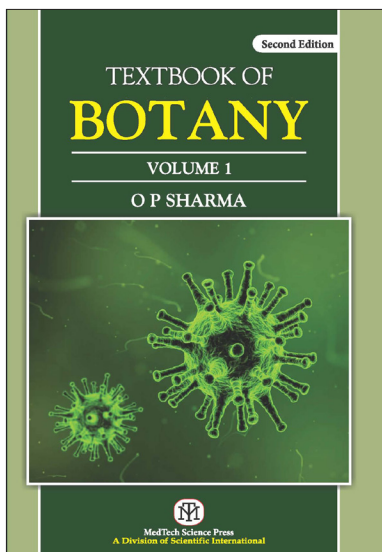
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- Book I** Soils and Soil Management: Soil Classification and Crop Adaptation ◆ Physical, Chemical and Biological Properties ◆ Fertility and How to Maintain ◆ Commercial Fertilizers ◆ Barnyard, Stable and Green Manures ◆ Lime and other Soil Amendments ◆ Soil Water, Its Functions and Control ◆ General Methods of Soil Management
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O P Sharma

### Contents

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◆ Introduction ◆ Classification ◆ Economic Importance of Algae ◆ Myxophyceae (Blue-Green Algae) ◆ Chlorophyceae (Green Algae) ◆ Xanthophyceae (Yellow-Green Algae) ◆ Bacillariophyceae (Diatoms) ◆ Phaeophyceae (Brown Algae) ◆ Distinguishing characters ◆ Rhodophyceae (Red Algae)

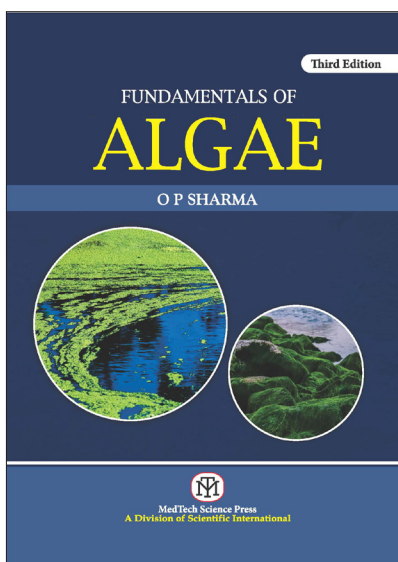
#### Section B: FUNGI

◆ 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 ◆ Anthoceroopsida ◆ Bryopsida (Musci) ◆ Evolution of the Gametophyte and Sporophyte in Bryophytes ◆ Appendix ◆ Further Reading ◆ Index

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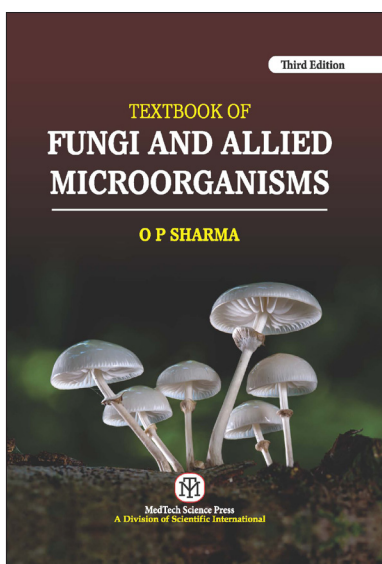
## Fundamentals of Algae

O P Sharma

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◆ Introduction ◆ History and Development of Algae ◆ Classification of the Algae ◆ Algal Occurrence ◆ Cytology of Algae ◆ Range of Thallus Structure ◆ Reproduction in Algae ◆ Origin and Evolution of Sex in Algae ◆ Life-cycles in Algae ◆ Physiology: Inorganic Nutrients, Vitamins and Pheromones in Algae ◆ Physiology: Nitrogen Fixation in Algae ◆ Physiology: Movements and Rhythm in Algae ◆ Cyanophages ◆ Ecology of Algae ◆ Water Blooms and Red Tides ◆ Algae in Water Supplies and as Indicators of Water Pollution ◆ Control of Algal Nuisance ◆ Toxic Algae ◆ Fossil Algae ◆ Methods of Algal Study ◆ Laboratory Culture and Commercial Cultivation of Algae ◆ Economic Importance of Algae ◆ Cyanobacteria or Cyanophyceae or Blue-green Algae ◆ Chrysophyceae (Green Algae) ◆ Xanthophyceae (Yellow-green Algae) ◆ Chrysophyceae (Golden-brown Algae) ◆ Bacillariophyceae (Diatoms) ◆ Cryptophyceae (Cryptomonads) ◆ Dinophyceae (Dinoflagellates) ◆ Euglenophyceae (Euglenoids) ◆ Phaeophyceae (Brown Algae) ◆ Rhodophyceae (Red Algae) ◆ Glossary ◆ Appendix 1 ◆ Appendix 2 ◆ Appendix 3 ◆ Appendix 4 ◆ Appendix 5 ◆ Index

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## Fungi and Allied Microorganisms

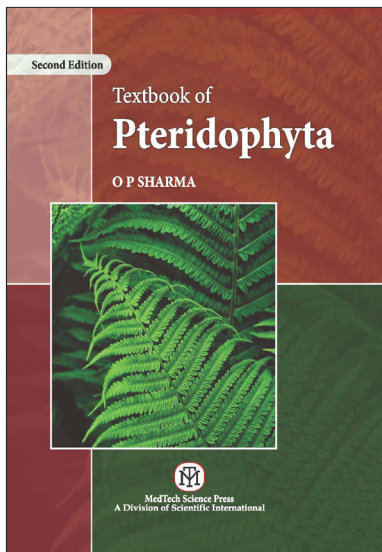
O P Sharma

### 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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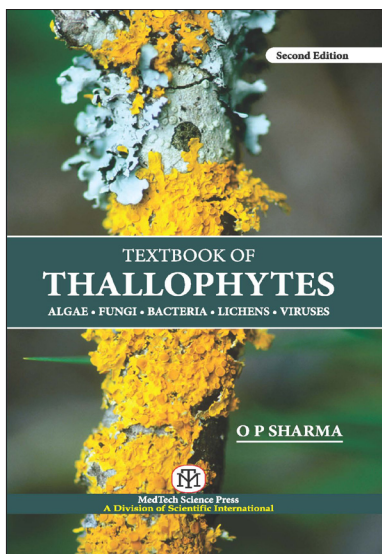
## Mathematics in Agriculture

Rajeev K Sharma

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## Textbooks of Thallophytes

O P Sharma

### Contents

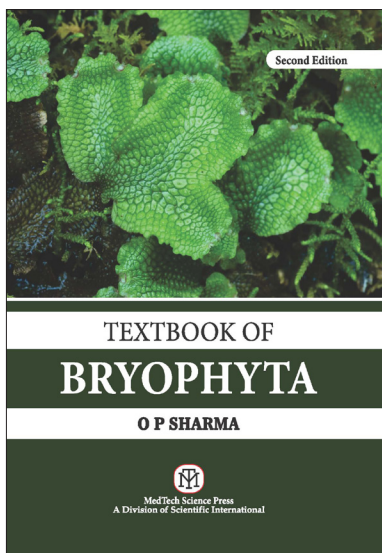
#### Part One ALGAE

♦ 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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♦ Introduction ♦ Classification of Fungi ♦ Economic Importance of Fungi ♦ Myxomycota ♦ Eumycota ♦ Mastigomycotina (General Account And Chytridiomycetes) ♦ Oomycetes ♦ Zygomycotina (Zygomycetes) ♦ Ascomycotina (Ascomycetes—General Account) ♦ Hemiascomycetes ♦ Plectomycetes ♦ Pyrenomycetes ♦ Discomycetes ♦ Laboulbeniomycetes ♦ Loculoascomycetes ♦ Basidiomycotina (General Account) ♦ Teliomycetes ♦ Hymenomycetes ♦ Gasteromycetes ♦ Deuteromycotina ♦ Lichen ♦ Bacteria ♦ Viruses ♦ Bibliography ♦ Index

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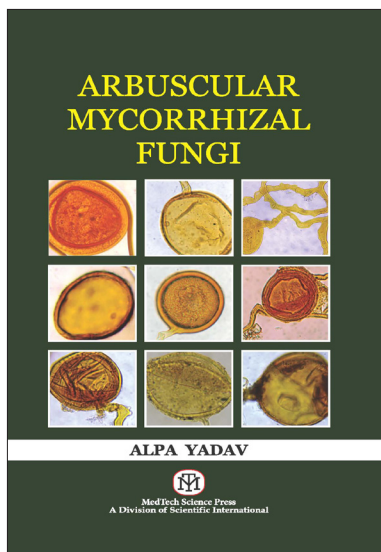
## Textbook of Bryophyta

O P Sharma

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♦ Introduction ♦ Classification ♦ Hepaticopsida: Takakiales and Calobryales ♦ Hepaticopsida (Jungermanniales) ♦ Hepaticopsida (Sphaerocarps) ♦ 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 Archesperium 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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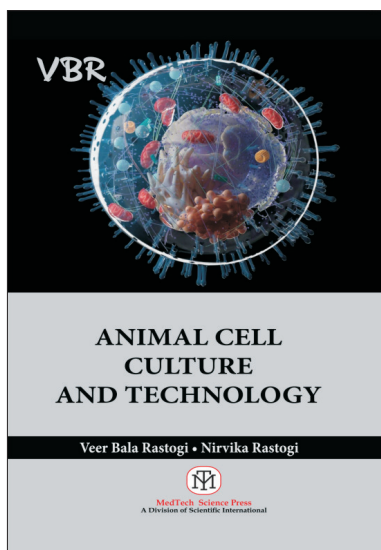
## Arbuscular Mycorrhizal Fungi

Alpa Yadav

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- ◆ 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
- ◆ Effect of fungicides on soil mycoflora including AM fungi associated with Sunflower
- ◆ References
- ◆ Annexure
- ◆ Appendix

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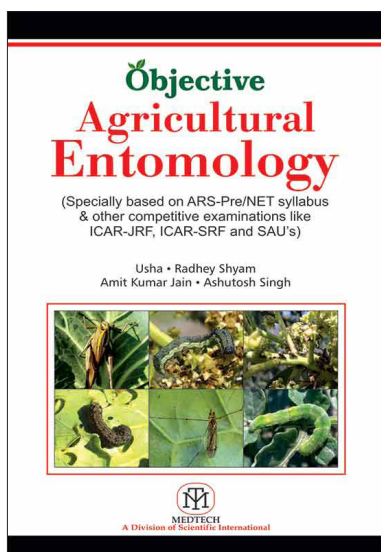
## Animal Cell Culture and Technology

Veer Bala Rastogi

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- ◆ Basic Equipment and Laboratory Design References – ◆ References
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- ◆ Cell Line and Culture Monitoring – ◆ References ◆ Protocol
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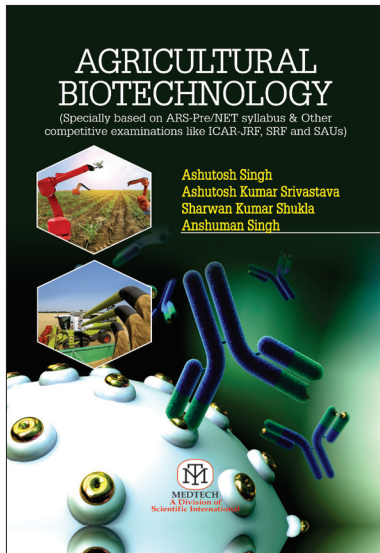


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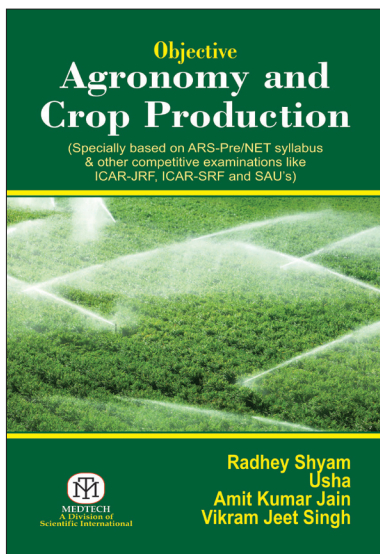
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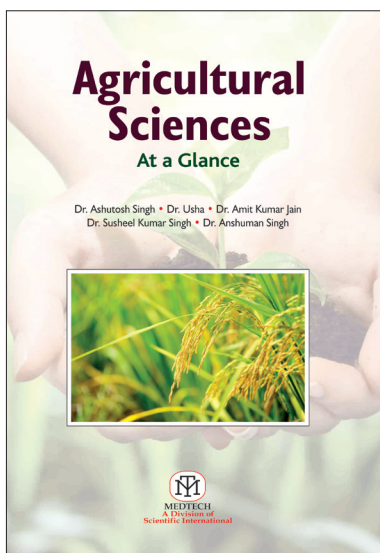
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- Unit II: Weed Management
- Unit III: Soil Fertility and Fertilizer Use
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- Unit VII: Agricultural Statistics
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- Unit X: Soil Water Relationship
- Unit XI: Plant Water Relationship Unit XII: Irrigation Water Management
- Unit XIII: Management of Problematic Soils and Water ◆ Memory Based Questions



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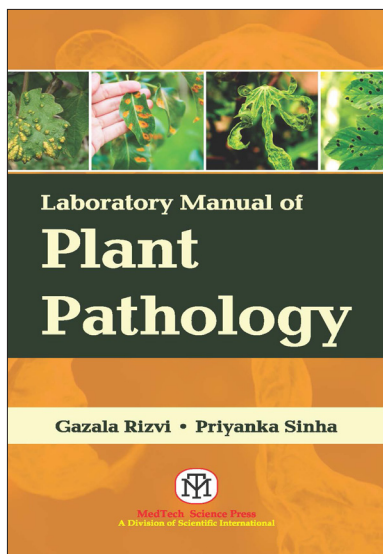
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- Unit I: Plant Science
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## Laboratory Manual of Plant Pathology

Gazala Rizvi • Priyanka Sinha

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- ◆ Study of Microorganism

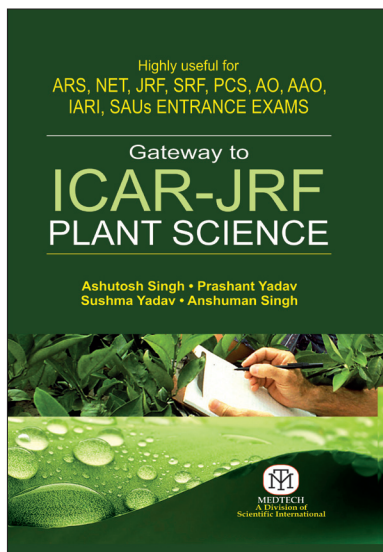
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- ◆ General Account of Bacteria ◆ Isolation of Bacteria ◆ Study of Bacteria in Different Culture ◆ Staining of Bacteria

#### 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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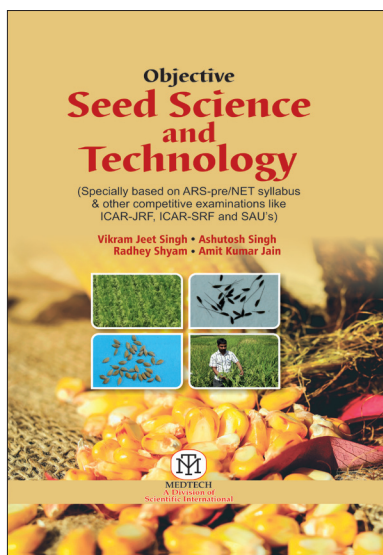
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- ◆ Plant Physiology
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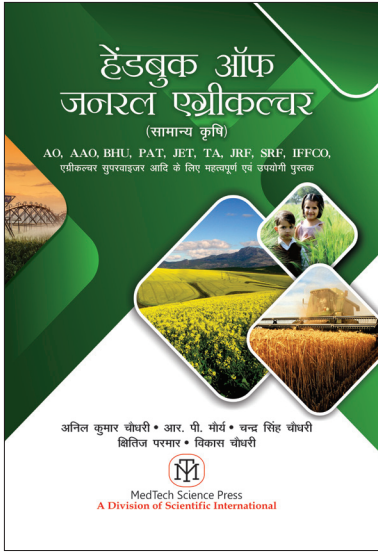
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- Unit II: Seed Production
- Unit III: Seed Processing
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- Unit VIII: Protection of Plant Varieties
- Annexure I: Memory Based Questions
- Annexure II: General Agriculture
- Annexure III: Agricultural Statistics and Computer Application

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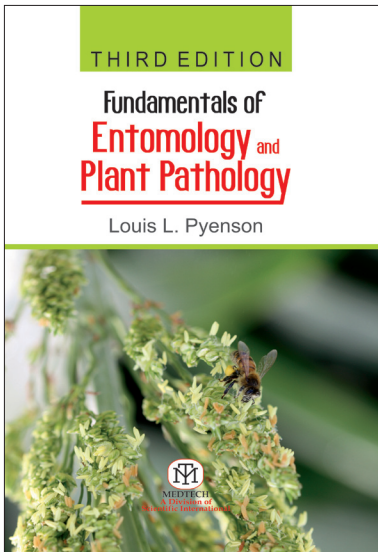
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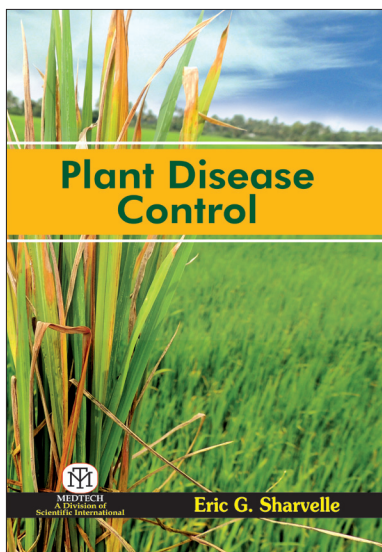
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- ◆ An Ounce of Prevention
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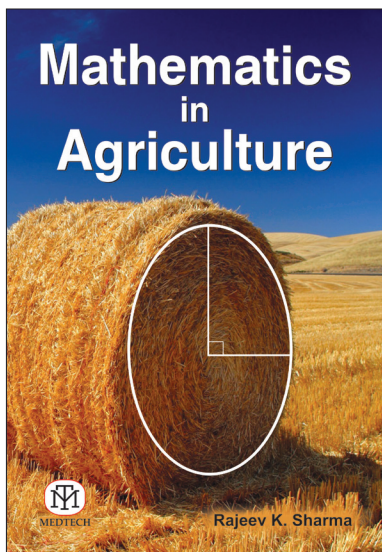
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- ◆ Chemical Control of Plant Diseases Through the Years
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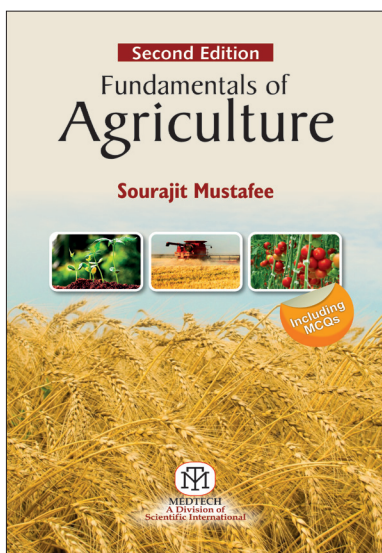
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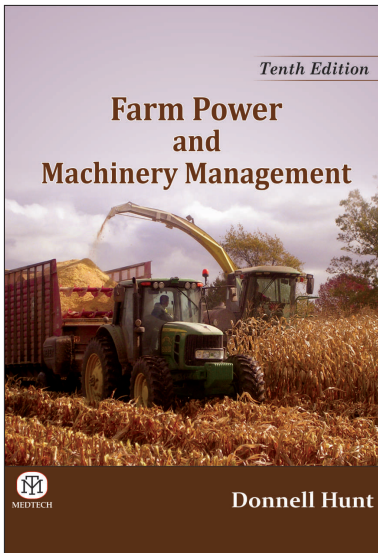
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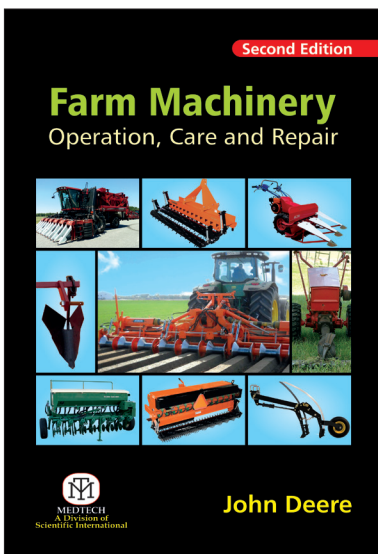
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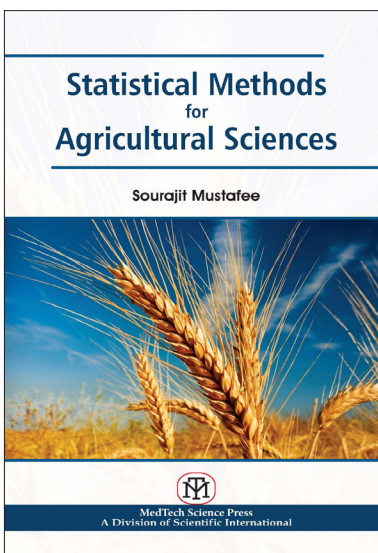
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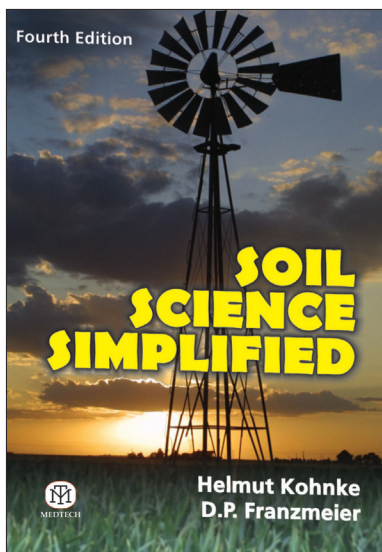
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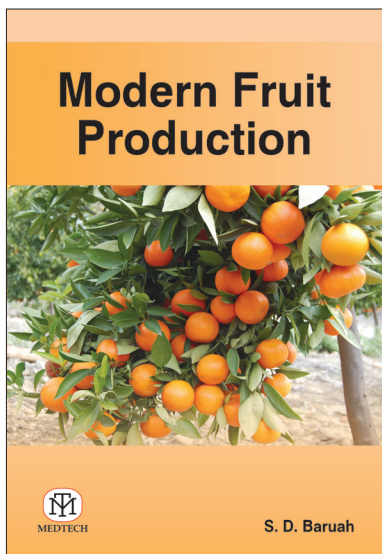
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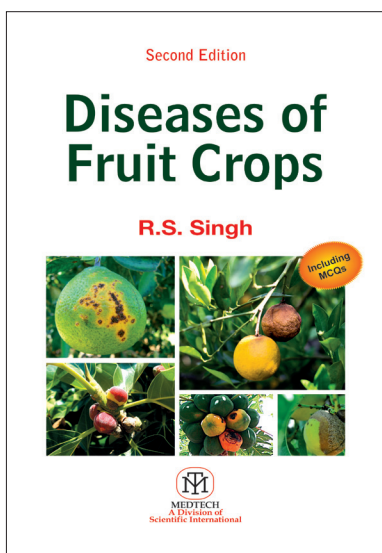
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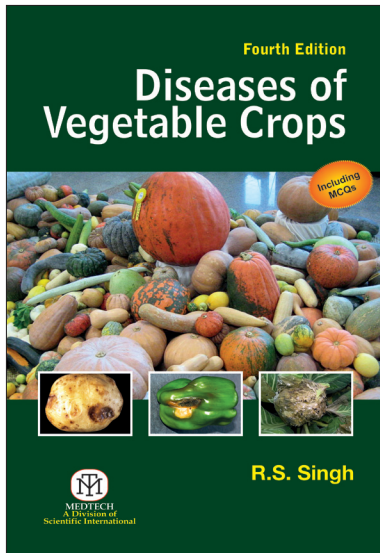
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## Diseases of Vegetable Crops

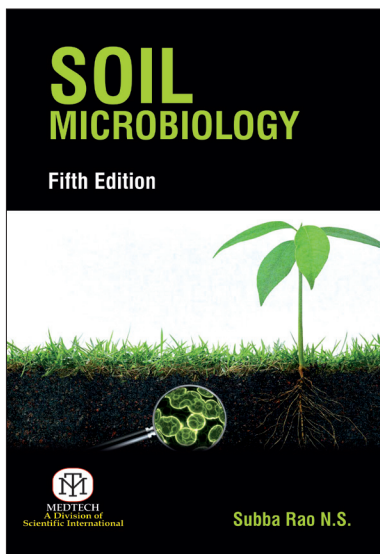
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## Soil Microbiology

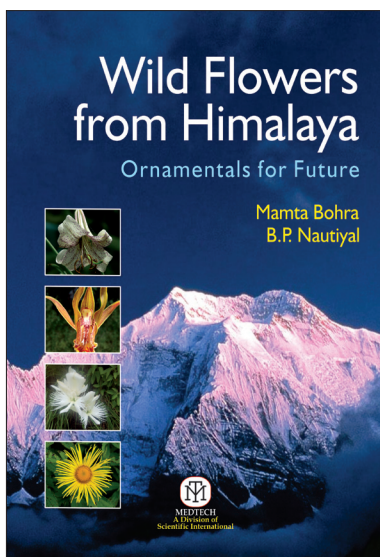
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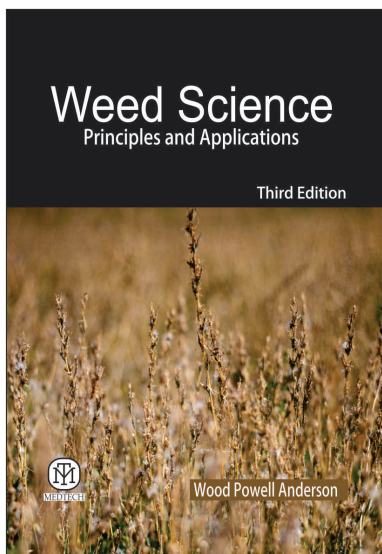
Mamta Bohra • BP Nautiyal

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- ◆ Himalayan Orchids ◆ Hedychium spicatum
- ◆ Hypericum L ◆ Inula spp
- ◆ Iris kemaonensis D Don ex Royle ◆ Meconopsis spp
- ◆ Polygonum L ◆ Primula spp
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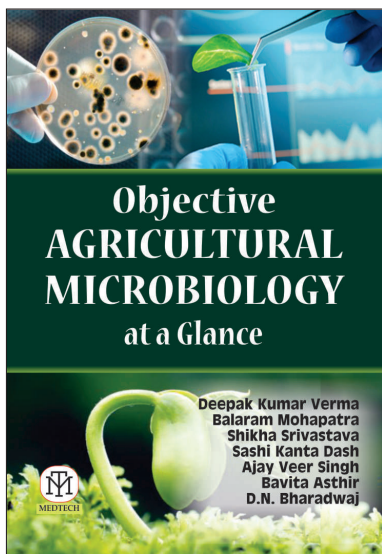
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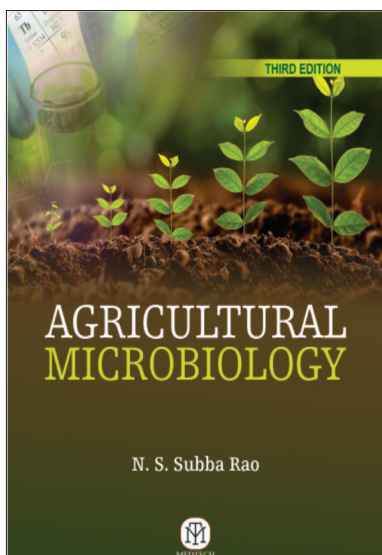
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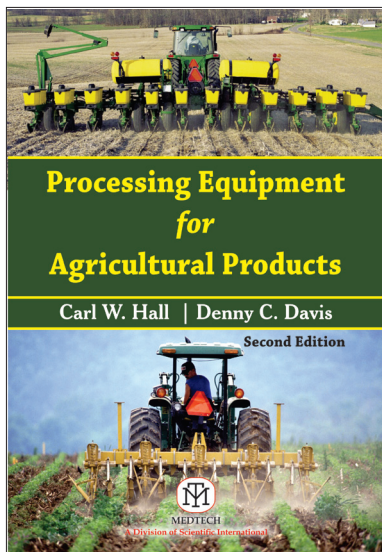
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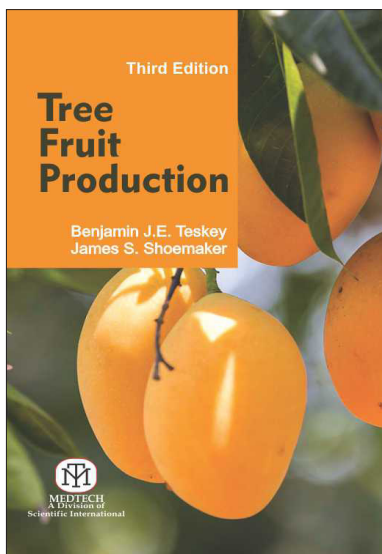
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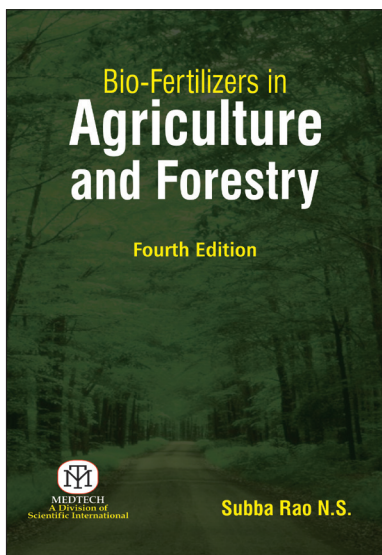
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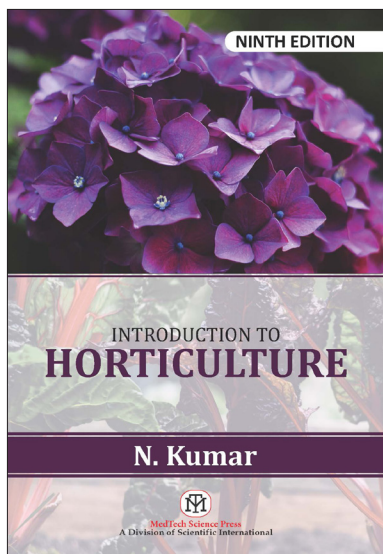
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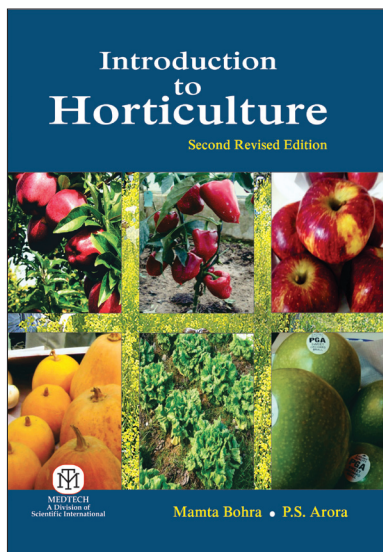
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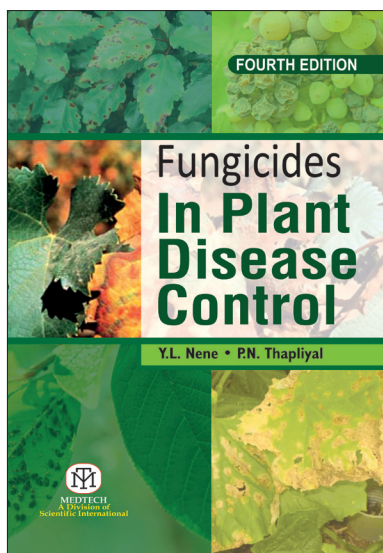
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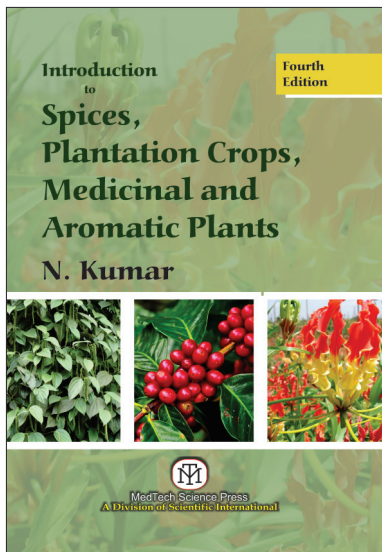
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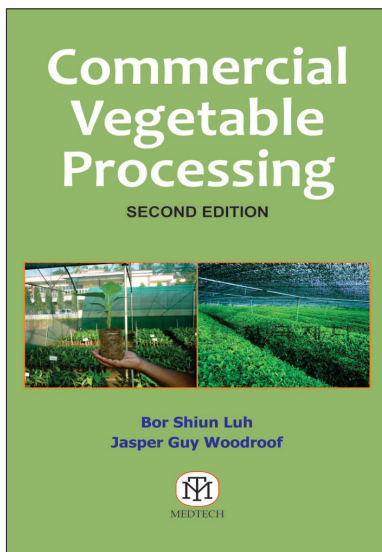
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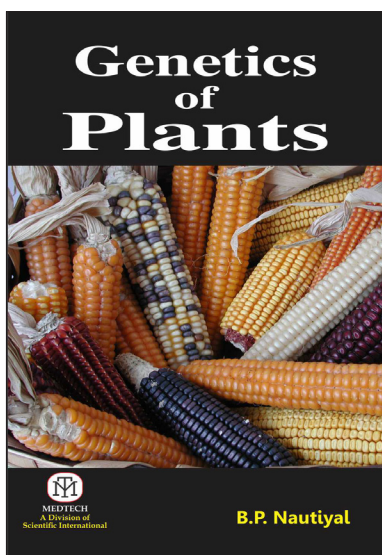
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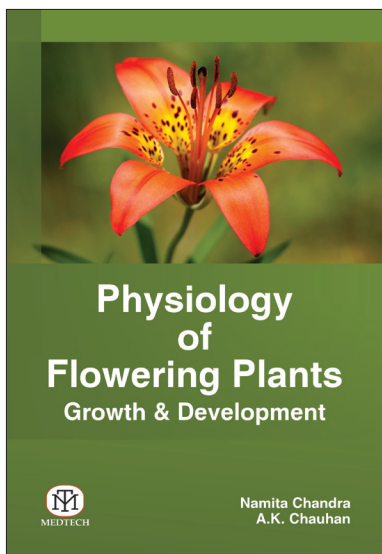
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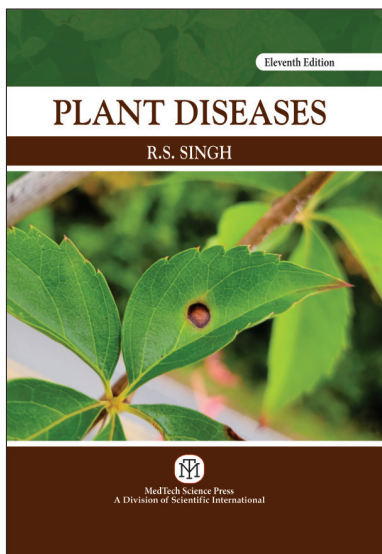
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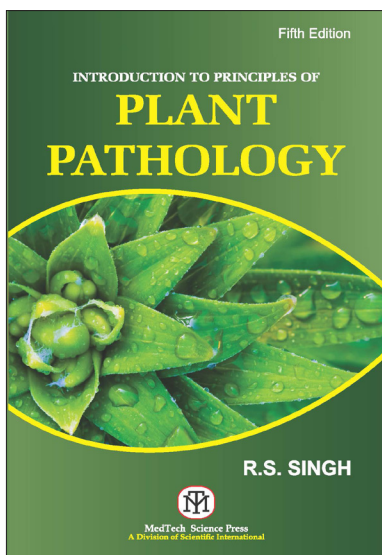
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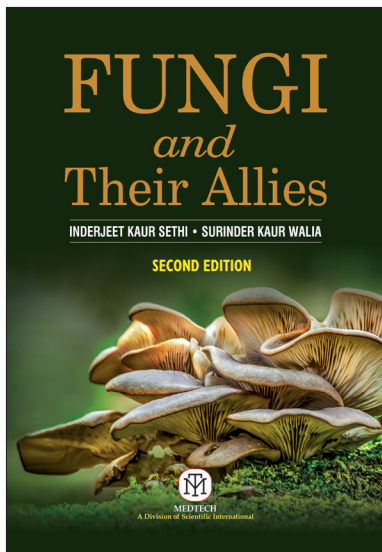


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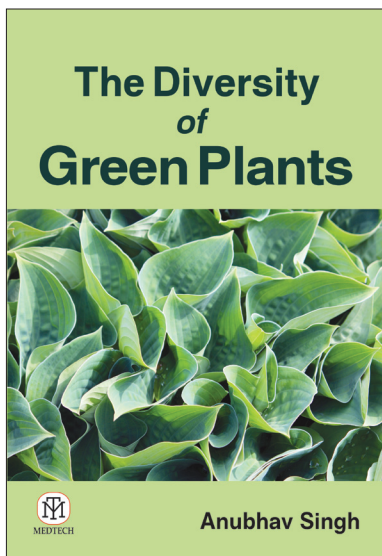
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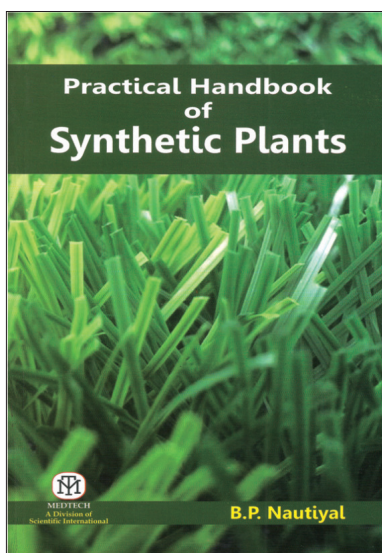
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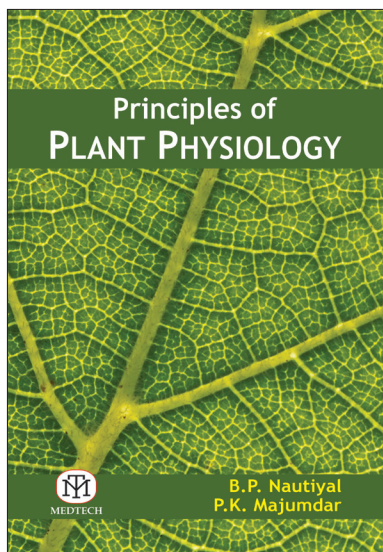
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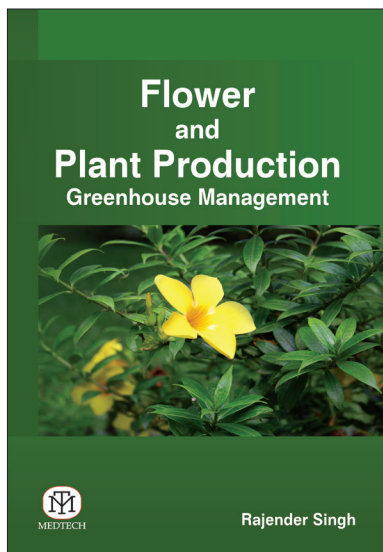
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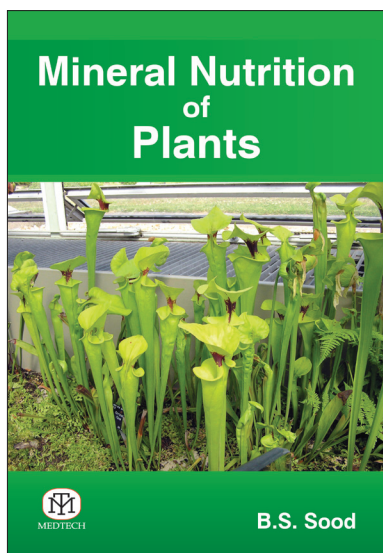
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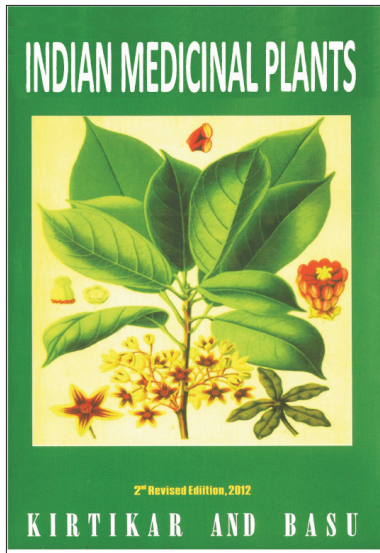
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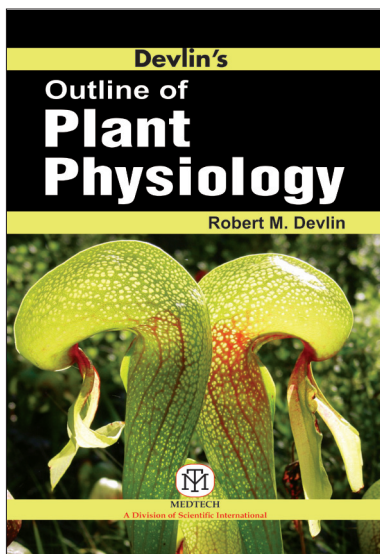
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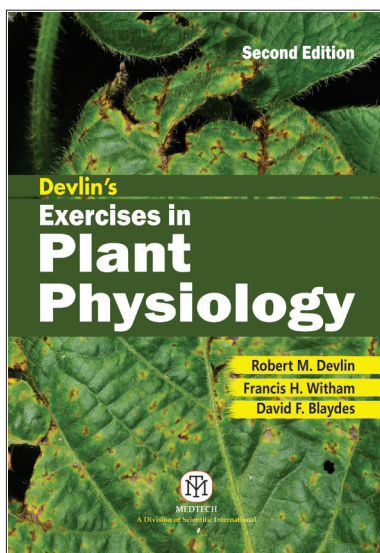
Robert M Devlin



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Devlin • Witham • Blaydes

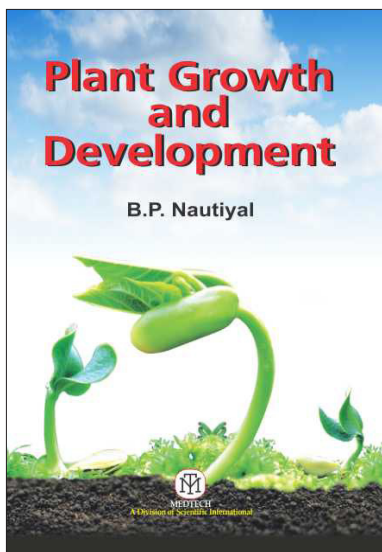
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- ♦ Diffusion ♦ Membrances and Permeability
- ♦ Osmotic Potential ♦ Water Potential
- ♦ Measurement of Water Potential of Plant Tissues by the Falling Drop Method
- ♦ The Cohesion of Water and Lifting Power of Evaporation
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- ♦ Stomates ♦ Transpiration Rates as Determined by Loss of Weight of Potted Plants
- ♦ Measurement of Transpiration Rate with Cobalt Chloride Paper
- ♦ Potometer Method for Studying Transpiration
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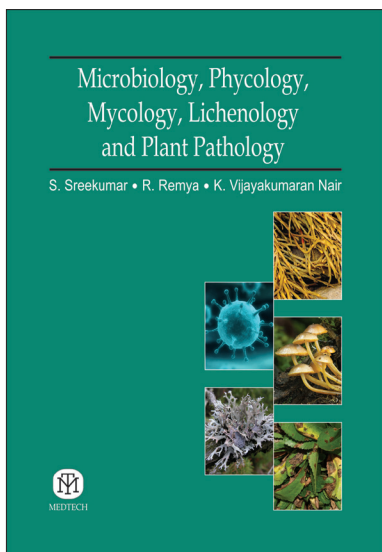
## Plant Growth and Development

BP Nautiyal

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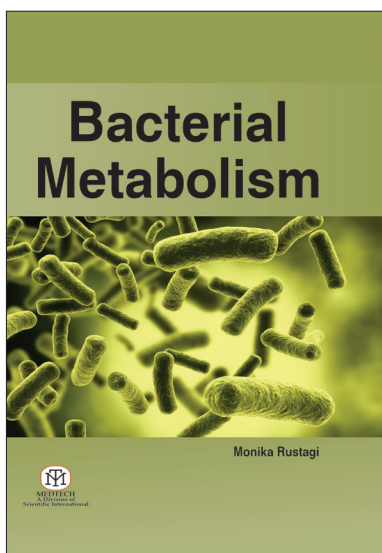
## Microbiology, Phycology, Mycology, Lichenology and Plant Pathology

S Sreekumar • R Remya • K Vijayakumaran Nair

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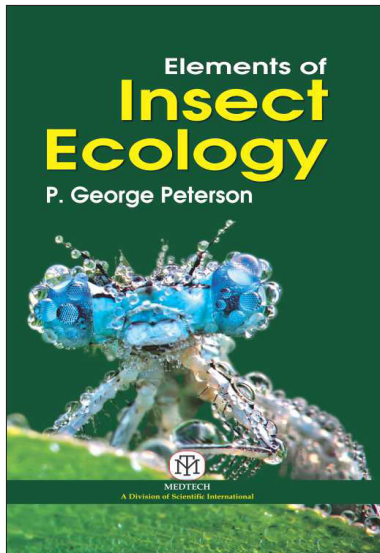
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Monika Rustagi

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 ♦ Biosynthesis of *Escherichia coli* Cells from Glucose  
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 ♦ Metabolic Diversity of Aerobic Heterotrophs  
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 ♦ Regulation of Bacterial Metabolism  
 ♦ Bacterial Fermentations  
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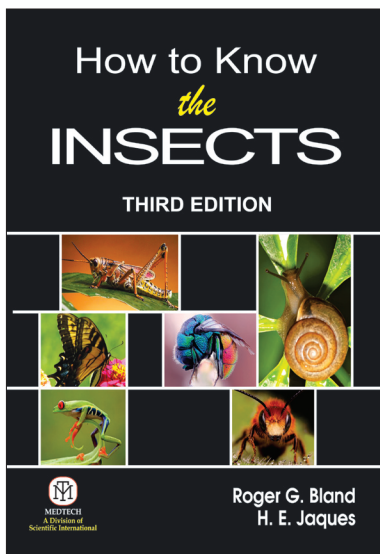
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**Part-I** Trophic Relationships: Trophic Structure of Community ♦ Coevolution of Plants and Herbivores ♦ Coevolution of Prey and Predator ♦ Predator and Prey Population Dynamics ♦ Energy Flow

**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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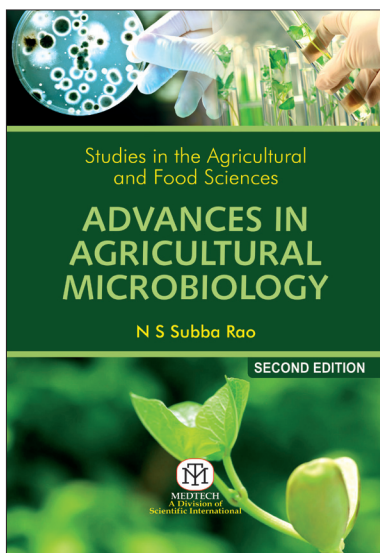
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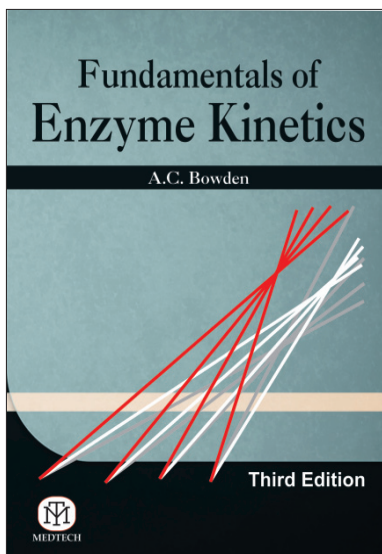
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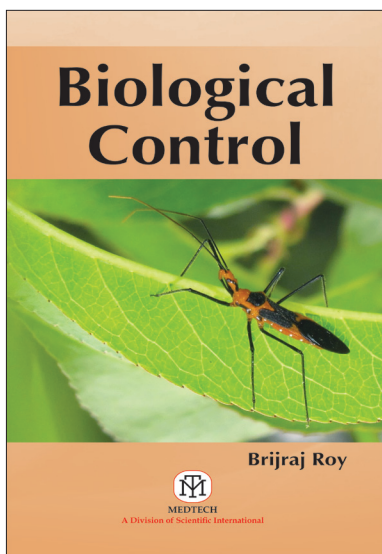
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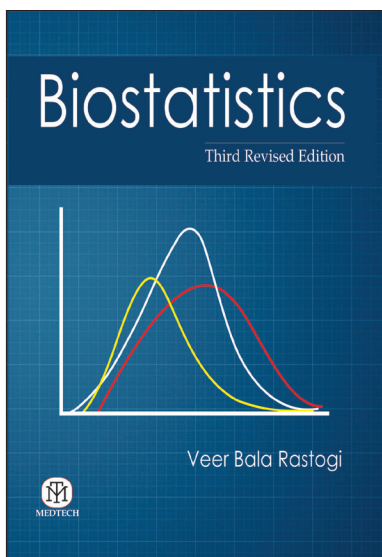


## Biological Control

Brijraj Roy

- ◆ The Nature and Scope of Biological Control
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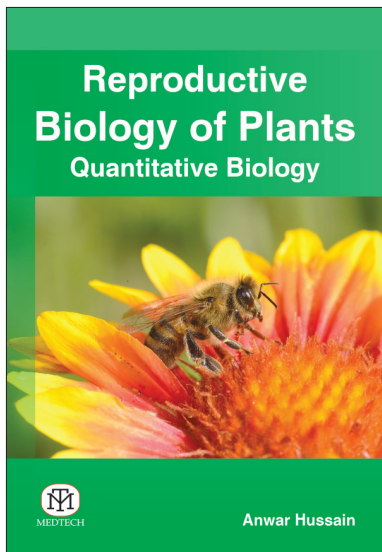
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- ◆ Demography and Vital Statistics ◆ Measures of Population and Vital Statistics
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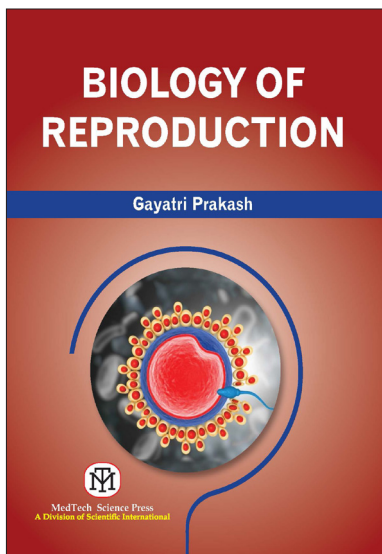
## Reproductive Biology of Plants (Quantitative Biology)

Anwar Hussain

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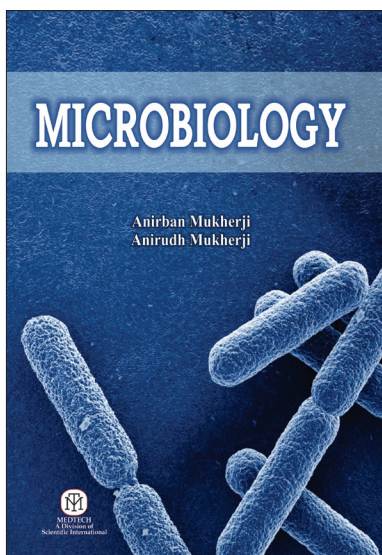
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Gayatri Prakash

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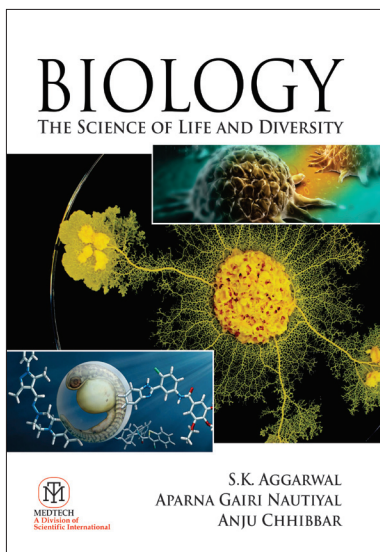
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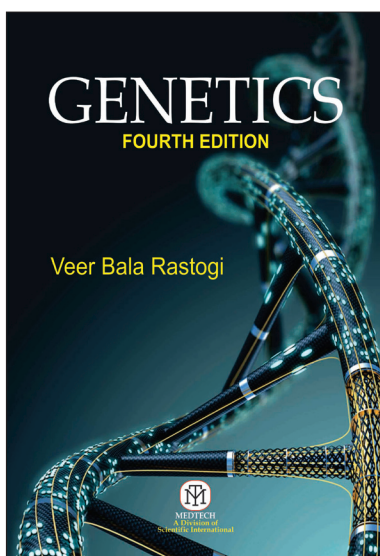
**SK Aggarwal • Aparna Gairi Nautiyal • Anju Chhibbar**

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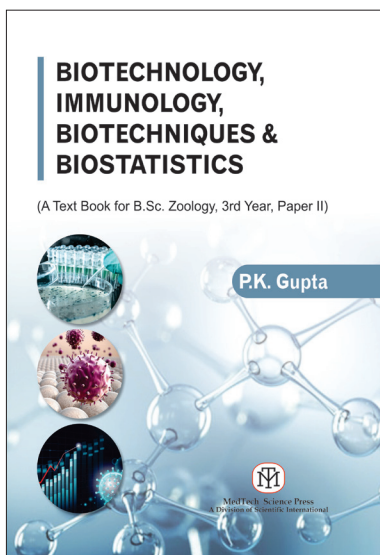
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- ◆ Chromosomal Mutations or Chromosomal Aberrations ◆ Mutations ◆ Inbreeding, Outbreeding and Hybrid Vigour ◆ Application of Genetic Principles to Animal and Plant Breeding ◆ Population Genetics and Evolution ◆ Glossary & References

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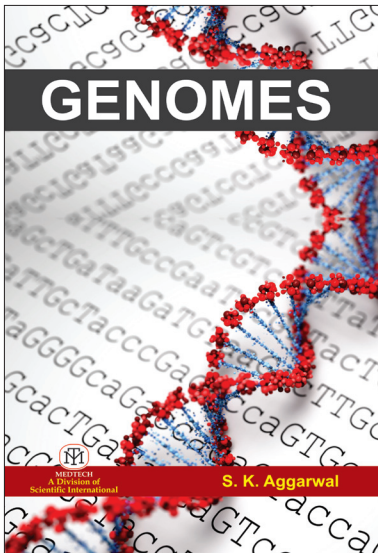
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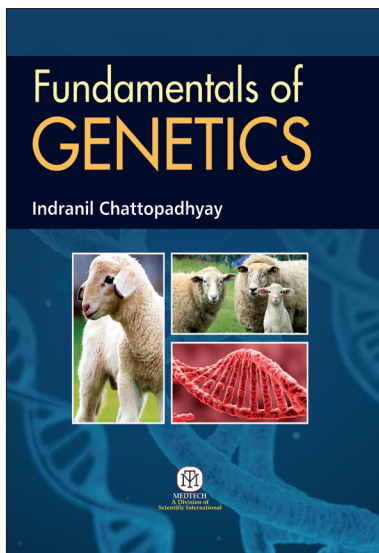
SK Aggarwal



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## Fundamentals of Genetics

Indranil Chattopadhyay

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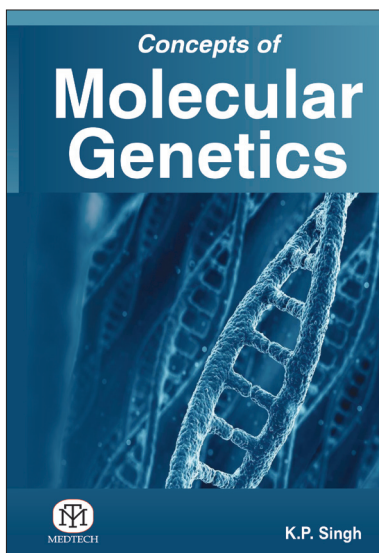
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♦ Nucleic Acid Chemistry ♦ Biology of Nucleic Acid ♦ DNA The Genetic Material ♦ DNA Replication ♦ DNA Replication II The Mechanism ♦ Eukaryotic DNA Replication ♦ Transcription in Prokaryotes ♦ Transcription in Eukaryotes ♦ RNA Processing ♦ Central Dogma ♦ Genetic Code ♦ Genetic Fine Structure ♦ Molecular Basis of Recombination ♦ Transposable Genetic Elements

#### Section 3: RECOMBINANT DNA TECHNOLOGY

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## Concepts of Molecular Genetics

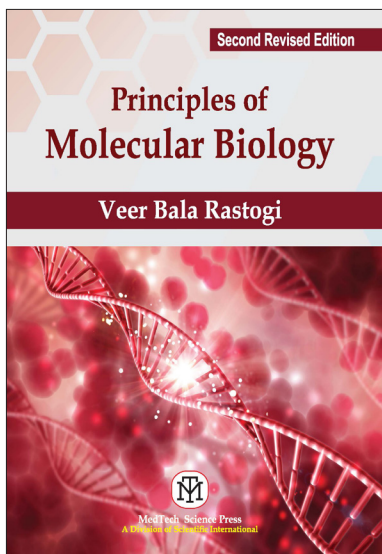
KP Singh

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 ♦ Genetic Transcription and Translation: The Role of the RNAs in Protein Synthesis  
 ♦ Gene Enzyme Relationships: Genetic Control of Cellular Metabolism  
 ♦ Mutation: A Molecular View of the Process and its Consequences  
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 ♦ Genetic Recombination: Its Mode and Mechanism in Microorganisms  
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## Principles of Molecular Biology

Veer Bala Rastogi

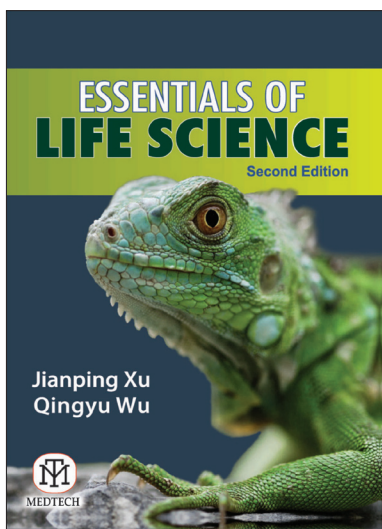
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- ◆ Organisation of Genome ◆ DNA Replication
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- ◆ Regulation of Gene Expression in Eukaryotes ◆ Genetic Engineering or Recombinant DNA Technology
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## Essentials of Life Science

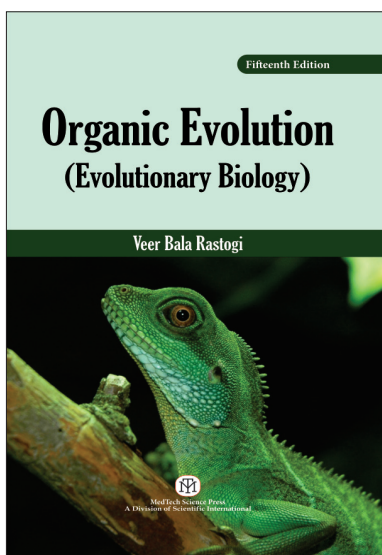
Jianping Xu • Qingyu Wu

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## Organic Evolution (Evolutionary Biology)

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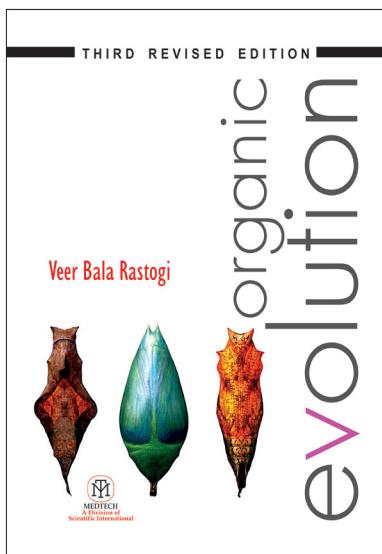
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- Unit I:** Concept, Evidences and Theories of Evolution: Concept of Evolution ◆ Evidences for Evolution  
◆ Theories of Evolution
- Unit II:** Mechanisms of Evolution: Variation ◆ Gene Mutations ◆ Chromosomal Aberrations ◆ Variation in Chromosome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

(2024)	978-93-93168-84-9	608 pp	PB	₹ 495
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## Organic Evolution

Veer Bala Rastogi

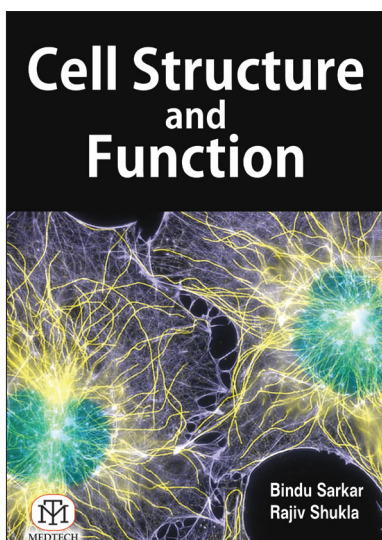
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- ◆ Mechanisms of Evolution: Variation ◆ Gene Mutations
- ◆ Chromosomal Aberrations ◆ Variation in Chromosome Number (Heteroploidy)
- ◆ Reproductive Isolating Barriers
- ◆ Speciation: Population Genetics, Gene Frequencies and Hardy-Weinberg Equilibrium
- ◆ Persistence of Variability within Populations: Polymorphism ◆ From Population to Species (Speciation)
- ◆ Genetic Drift and Gene Flow ◆ Natural Selection in Action
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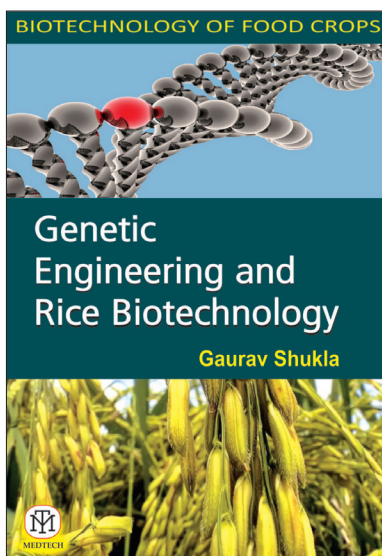
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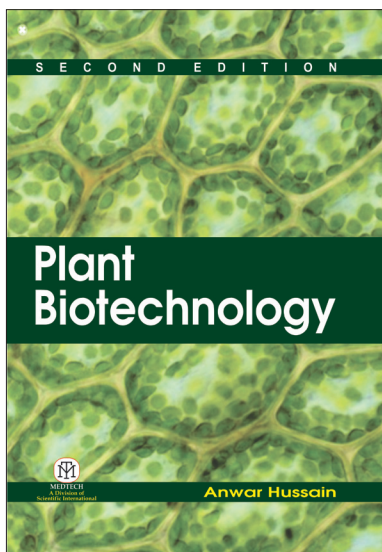
Ellyn Daugherty



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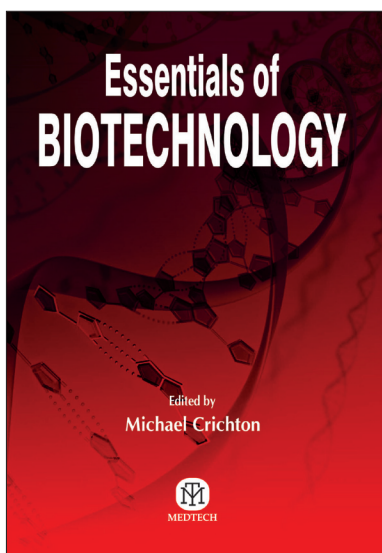
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Michael Crichton

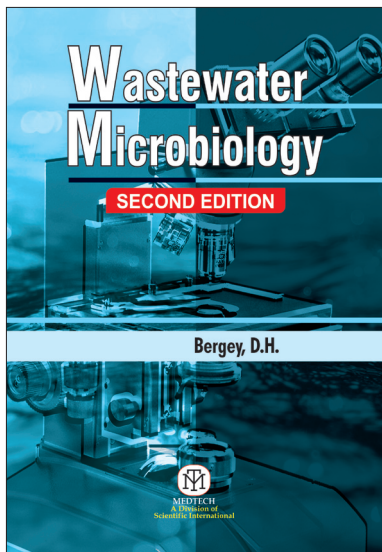


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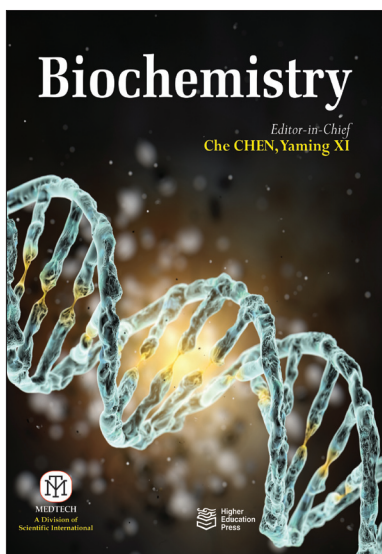
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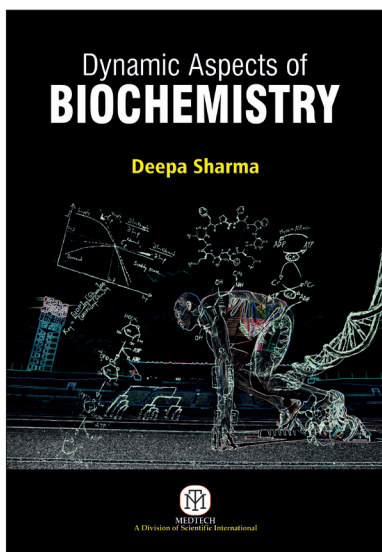
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Deepa Sharma

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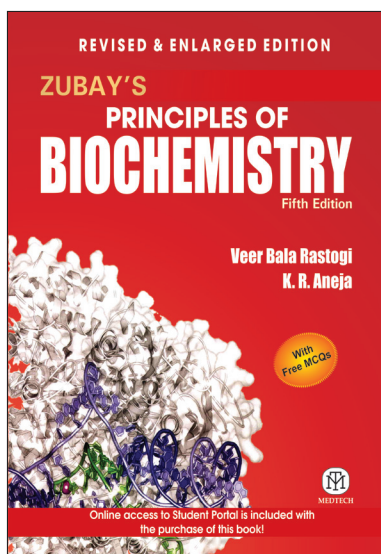
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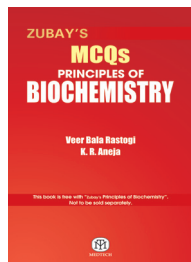
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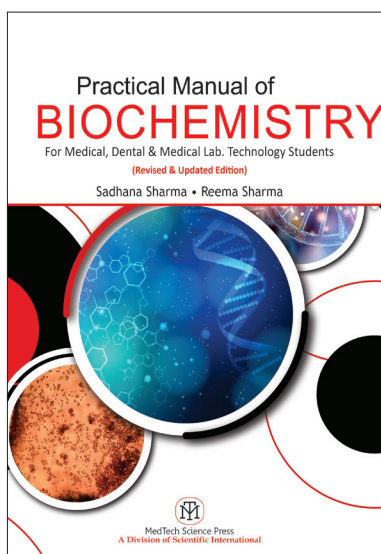
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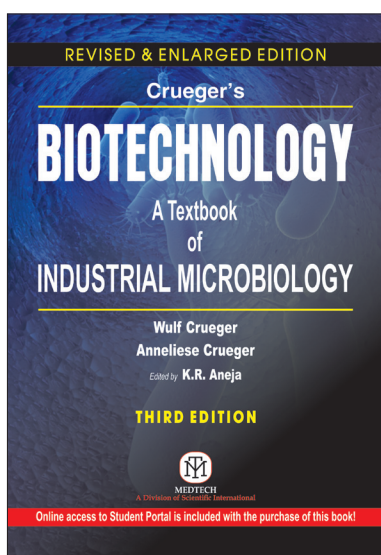


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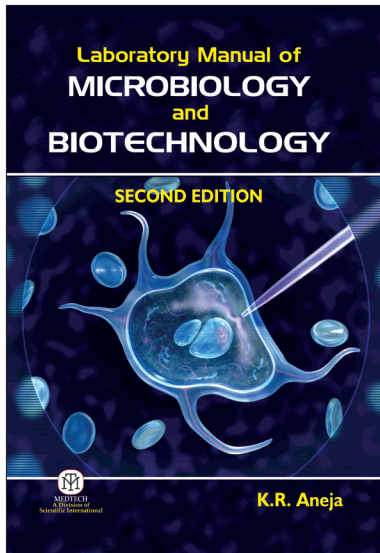
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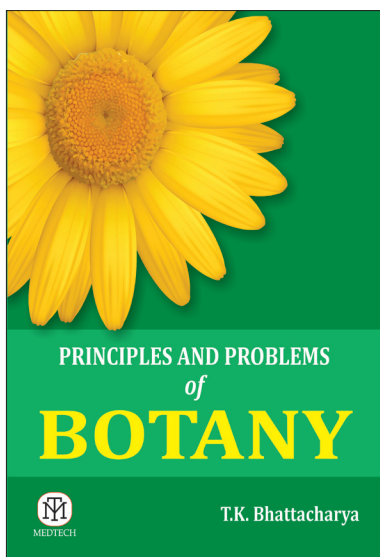
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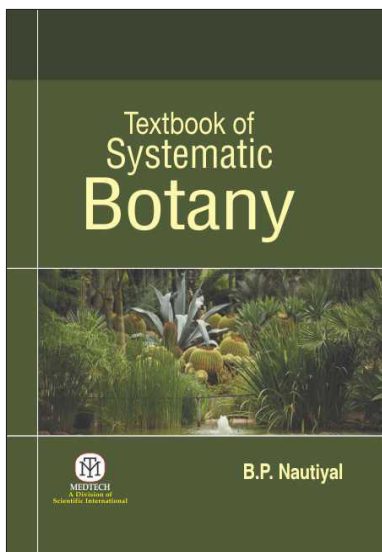
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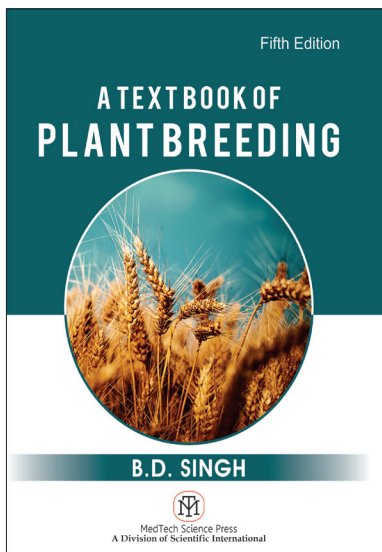
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- ◆ The Terminology of Systematic Botany
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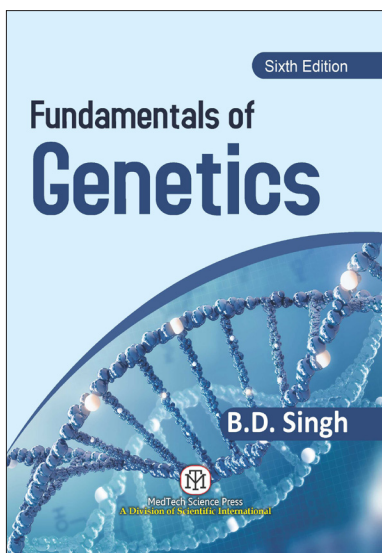
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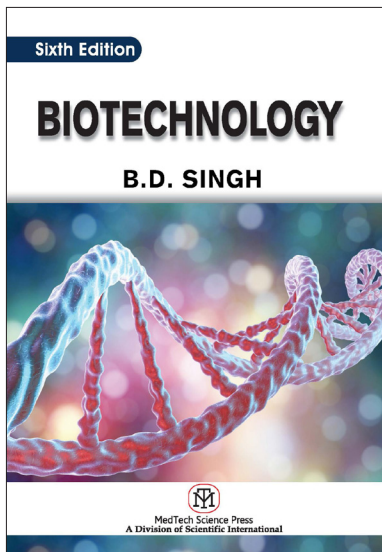
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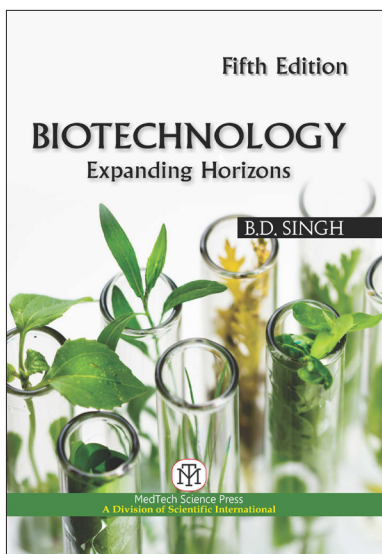
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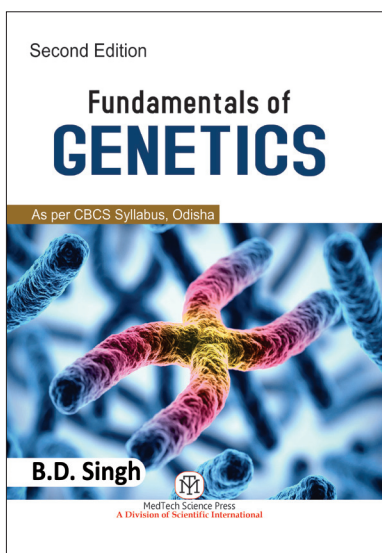
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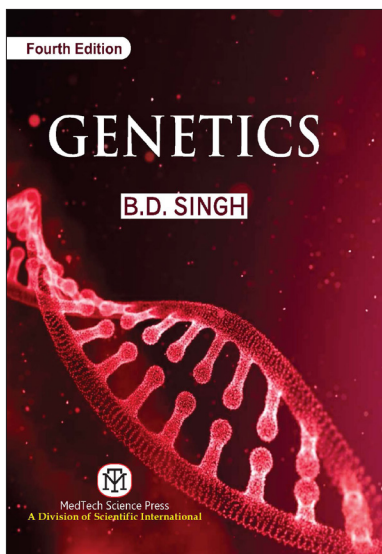
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## Genetics

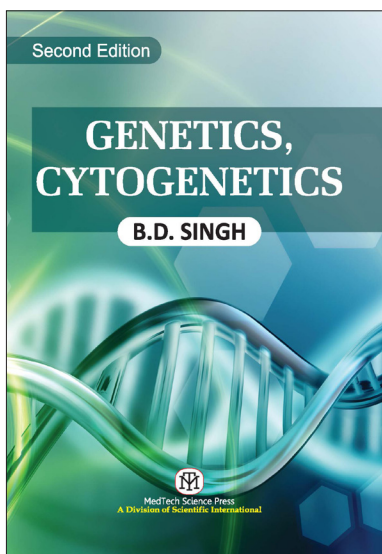
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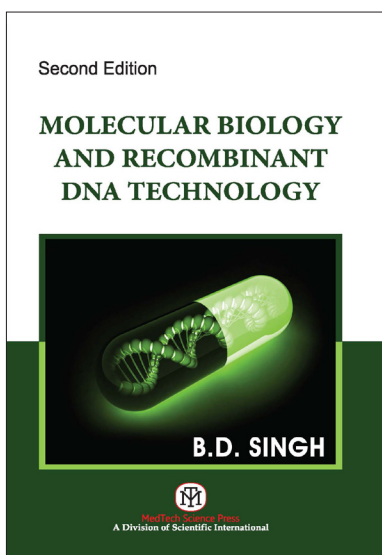
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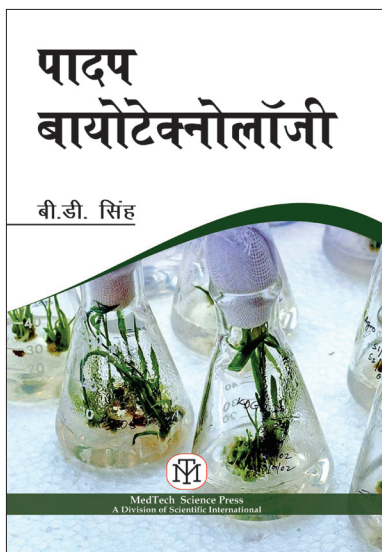
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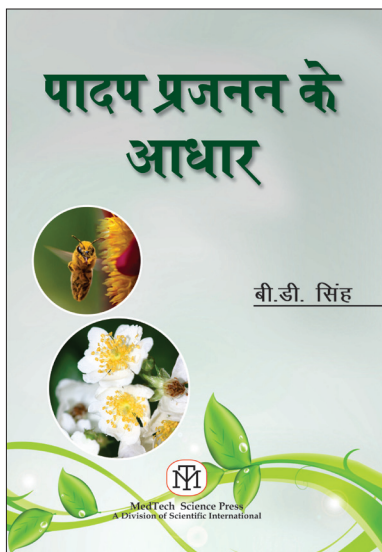
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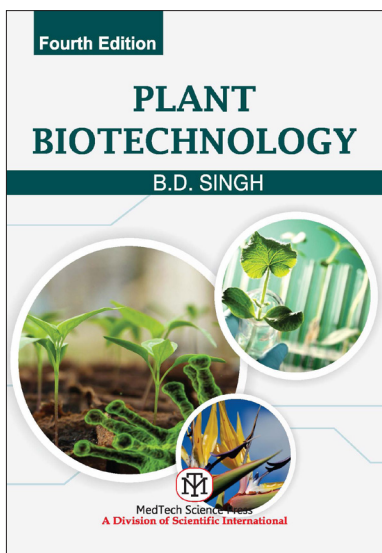
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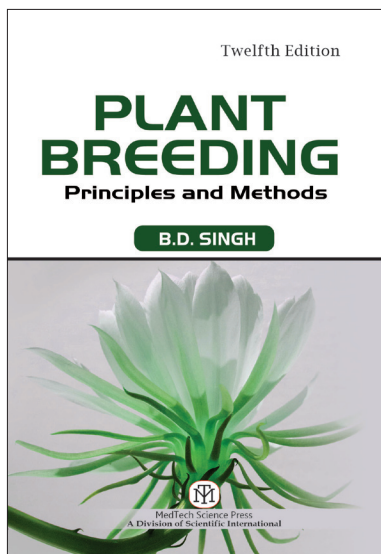
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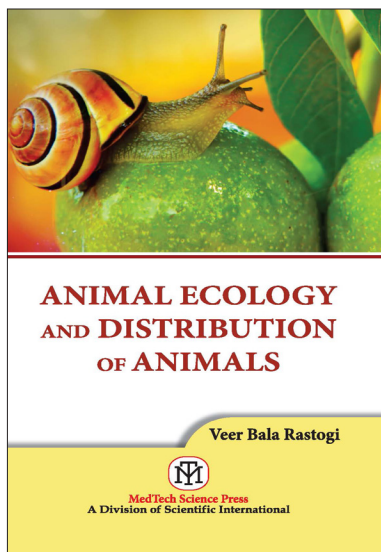
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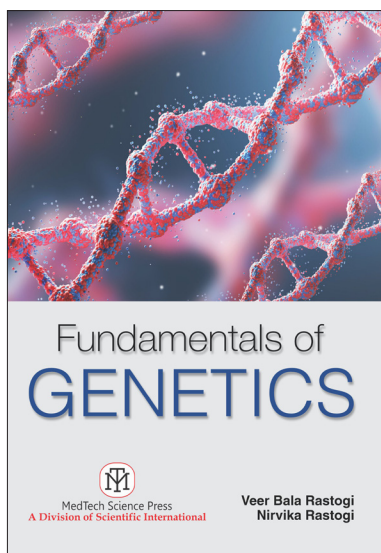
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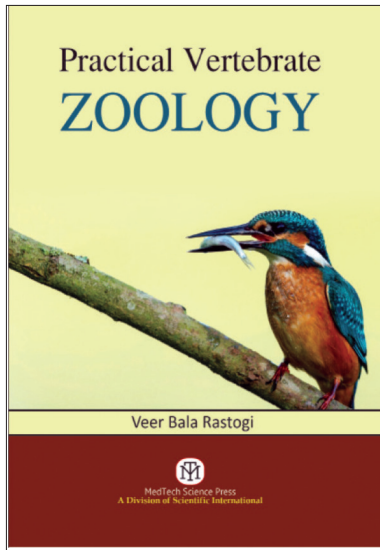
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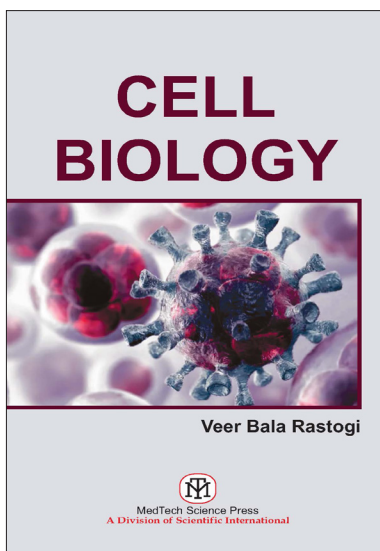
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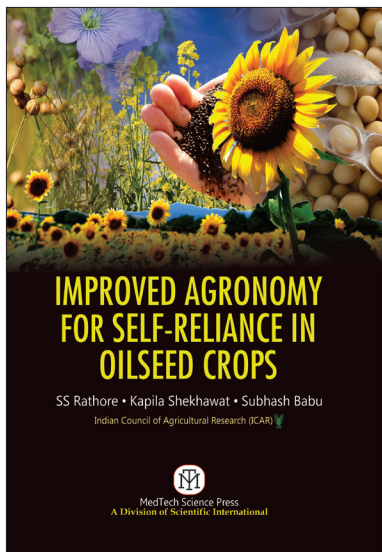
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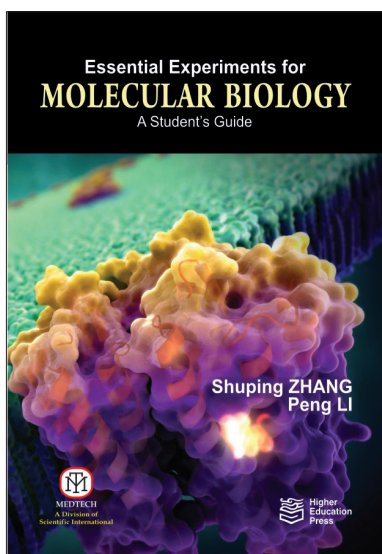
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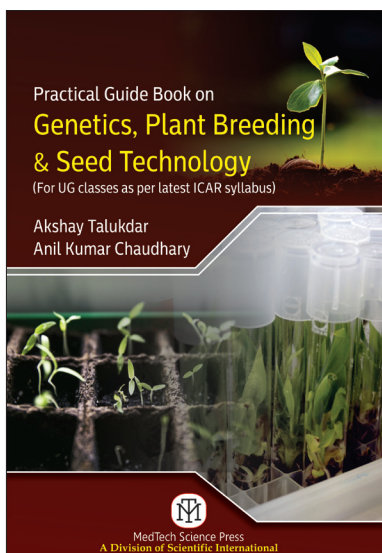
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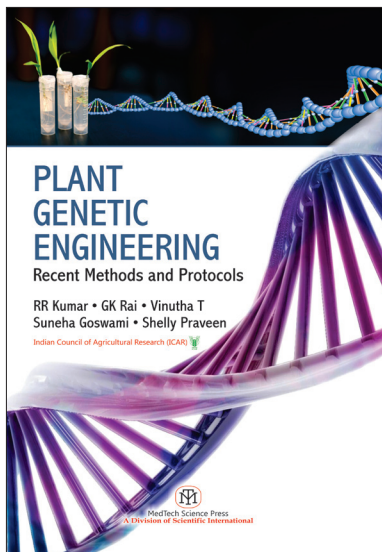
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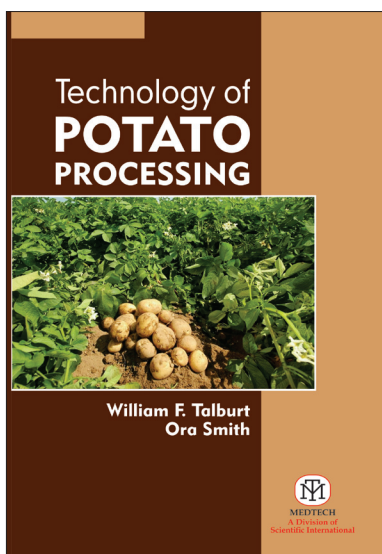
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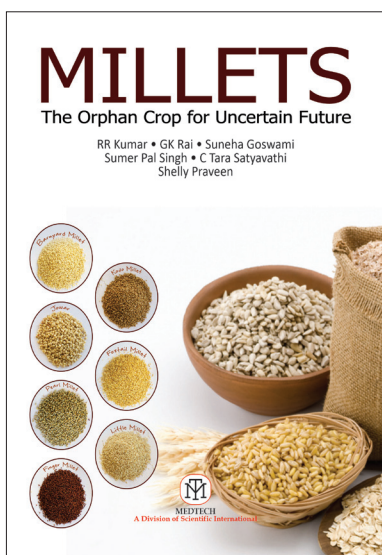
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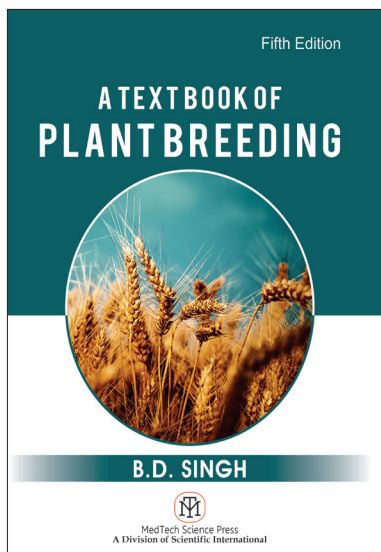
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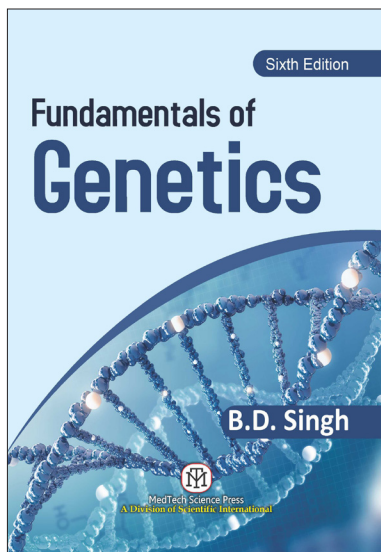
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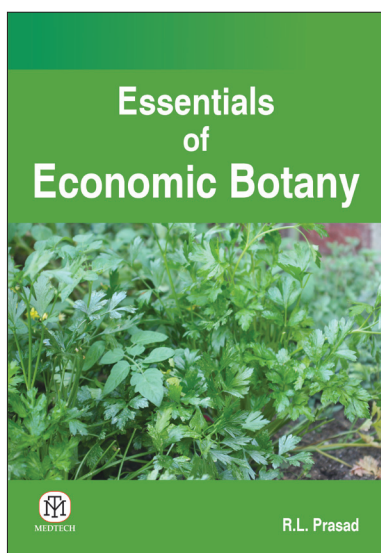
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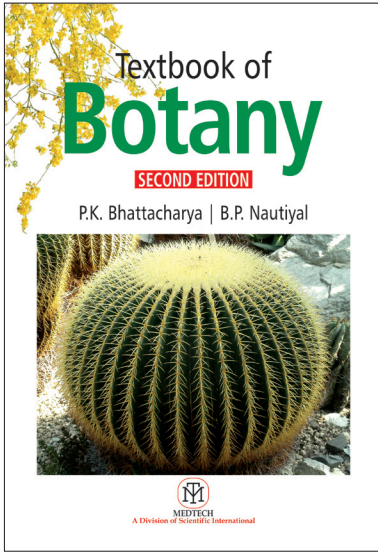


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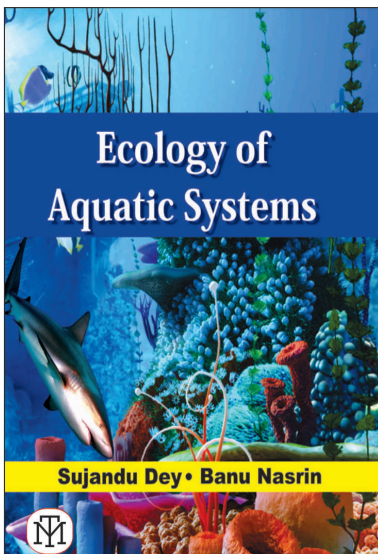
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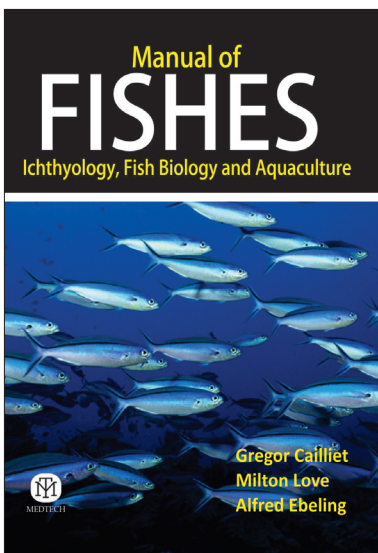
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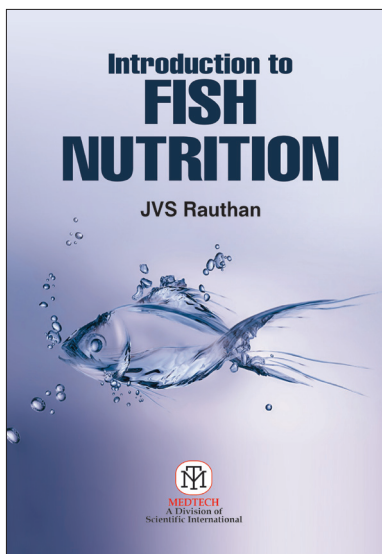
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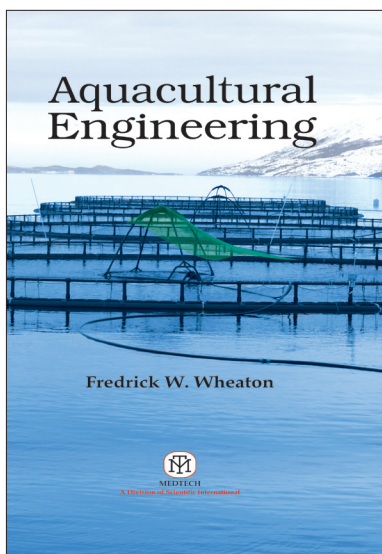
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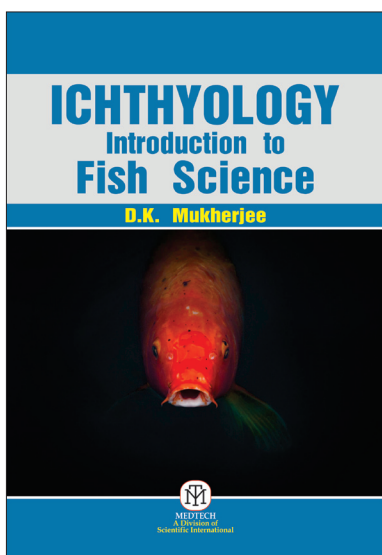
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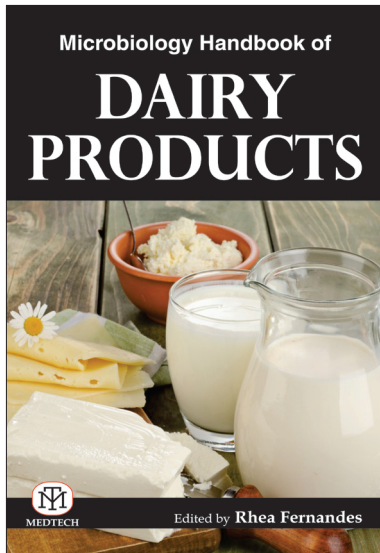
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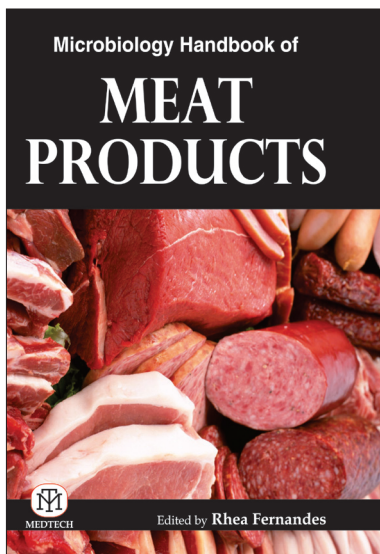
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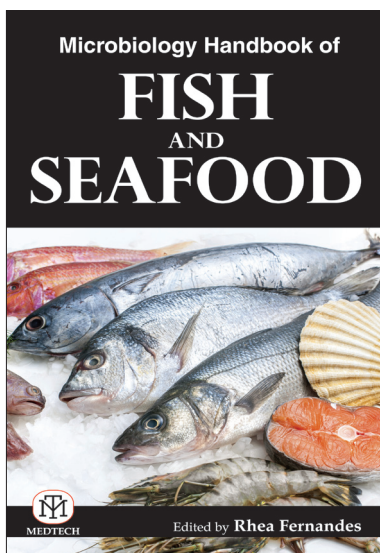
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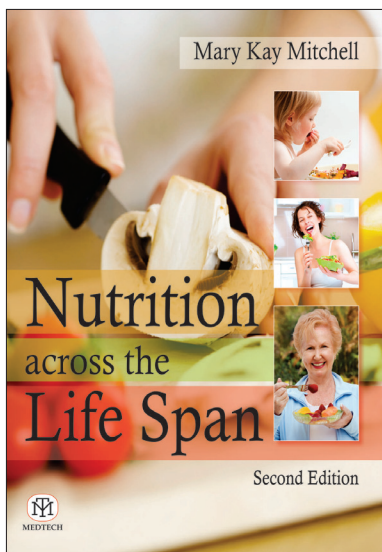
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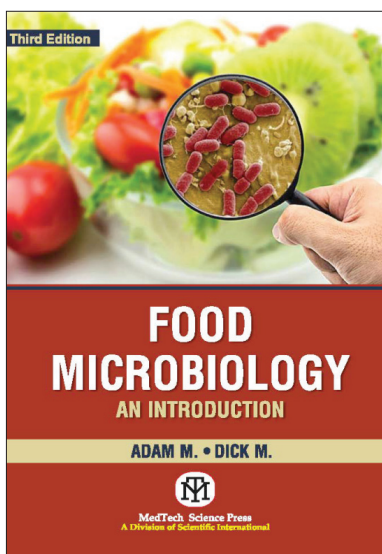
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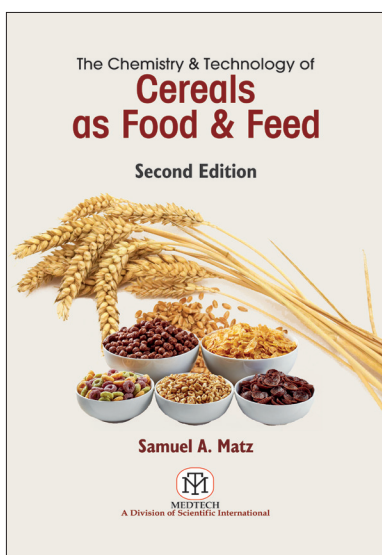
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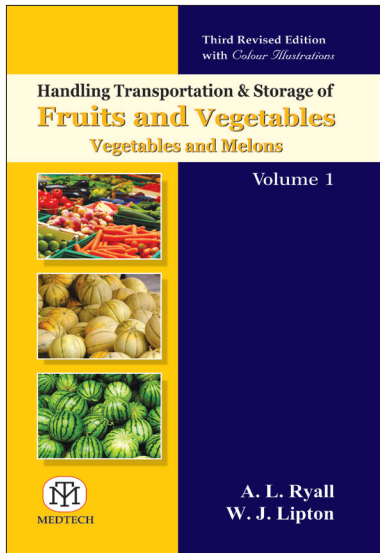
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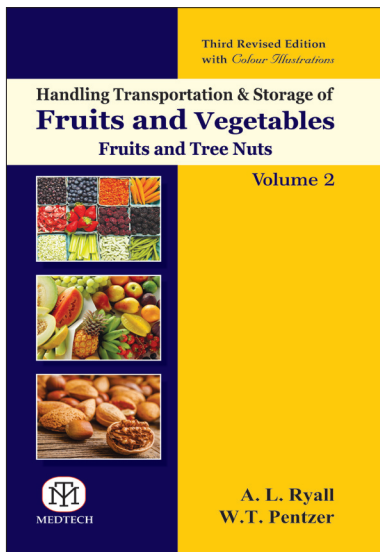
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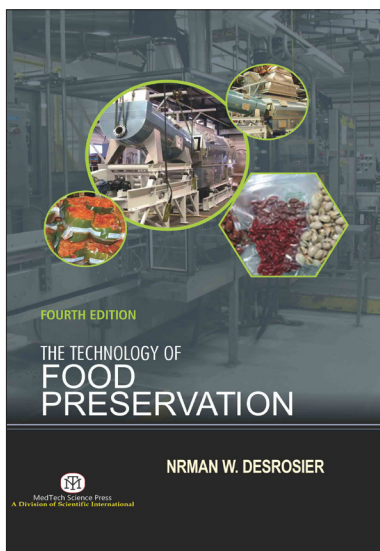
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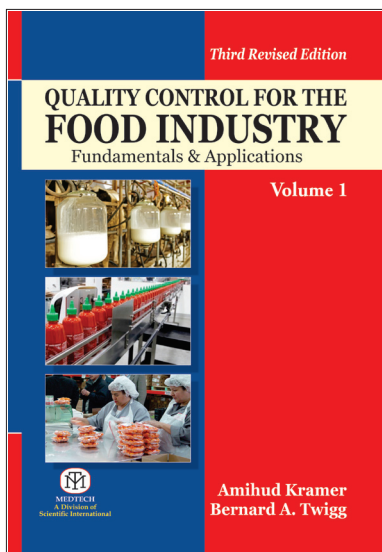
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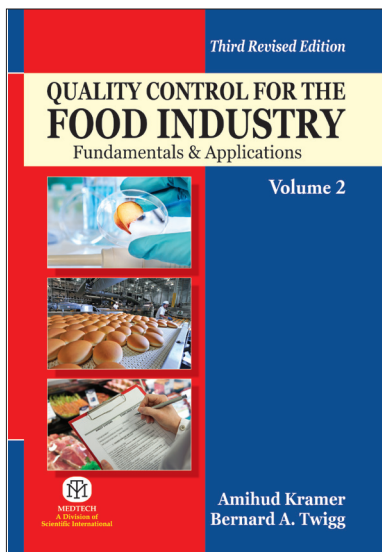
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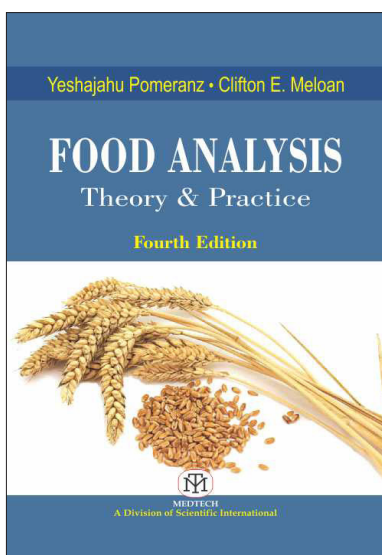
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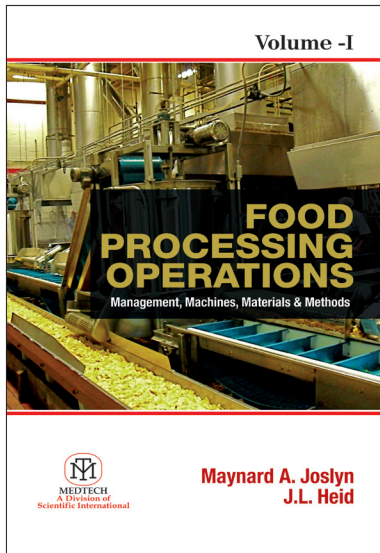
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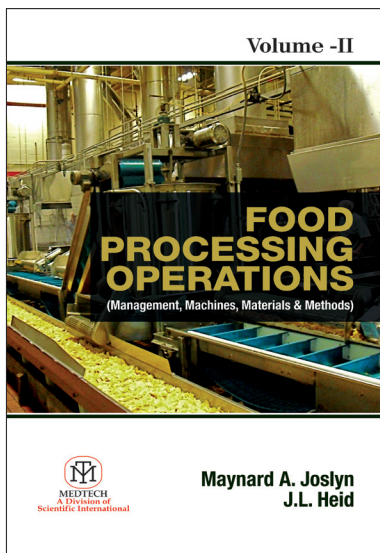
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#### Section 3 RAW MATERIALS—PRODUCTION, HARVESTING, RECEIVING, PREPARING

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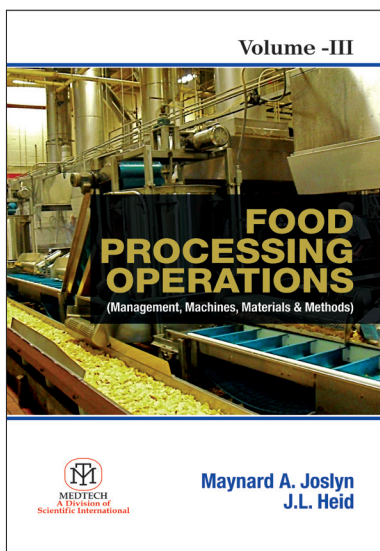
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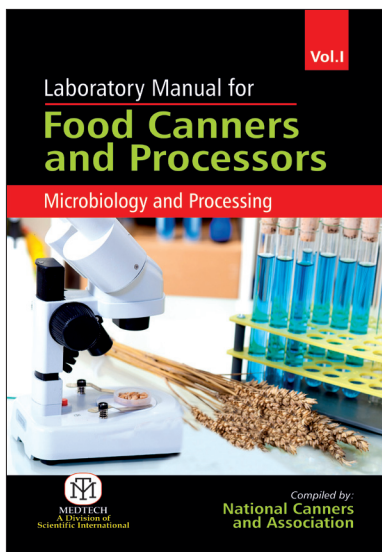
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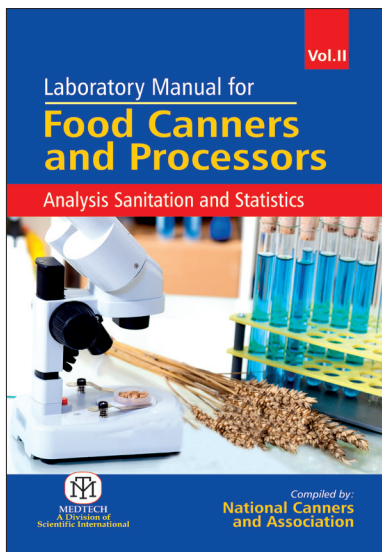
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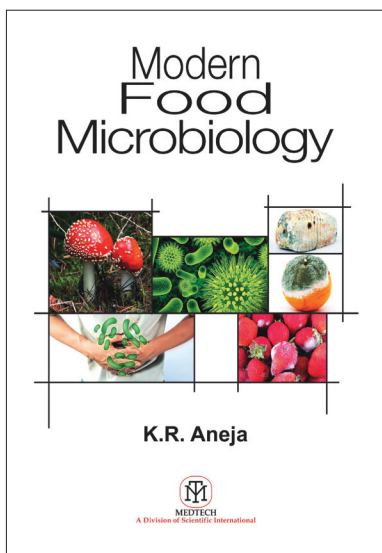
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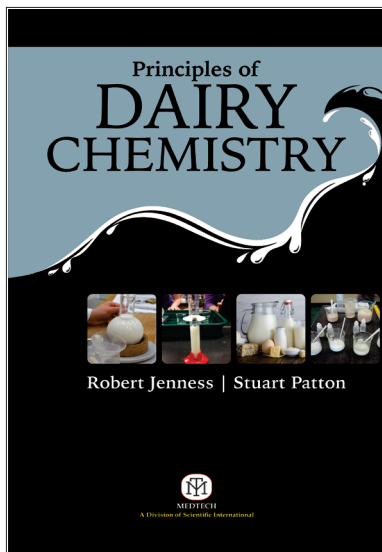
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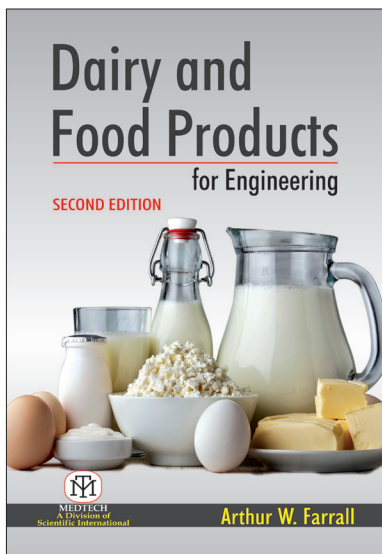
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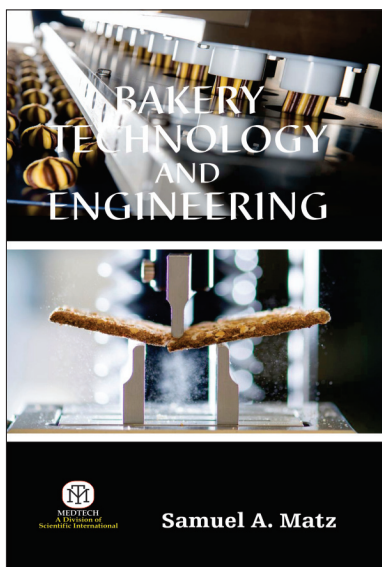
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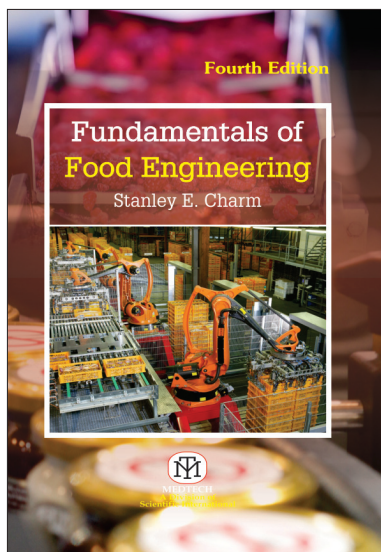
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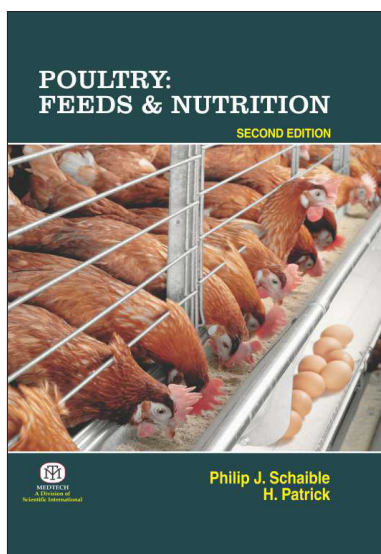
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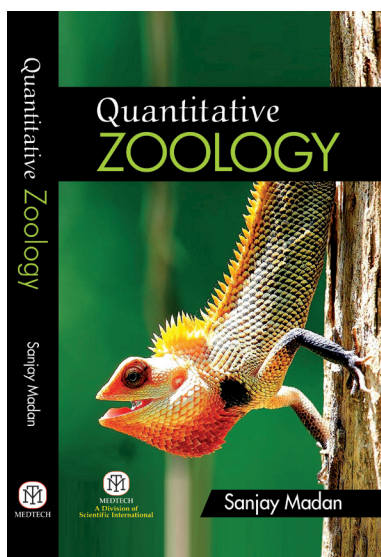
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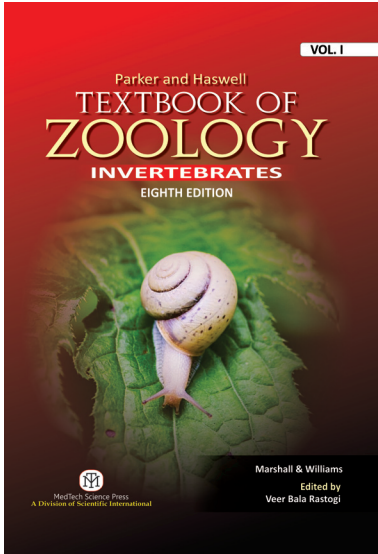
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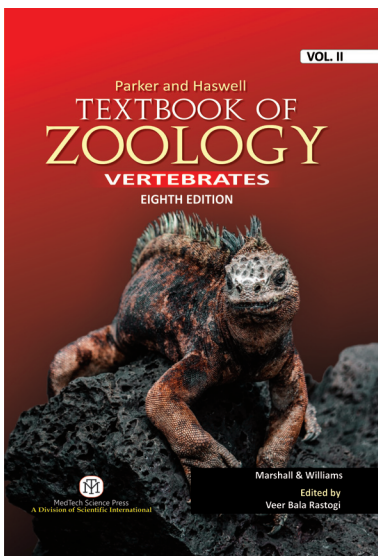
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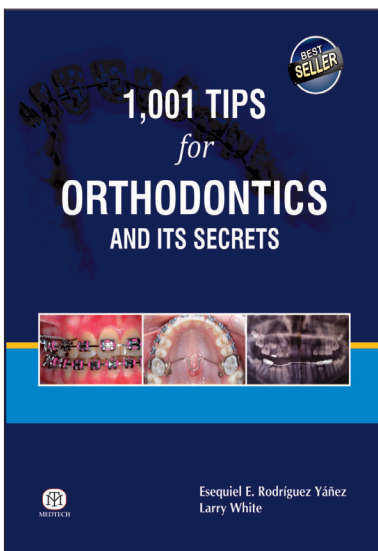
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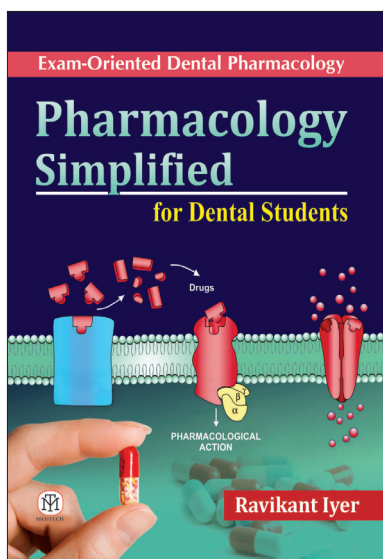
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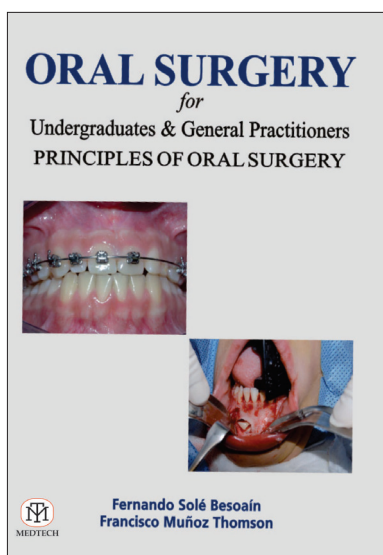
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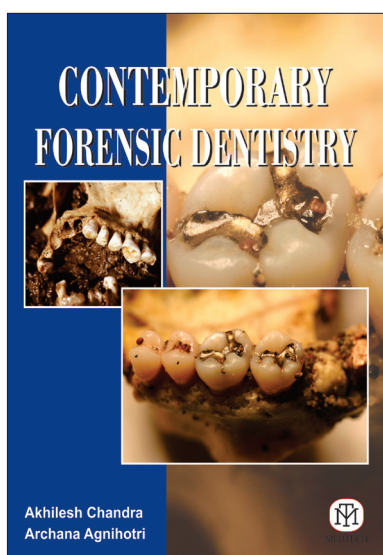
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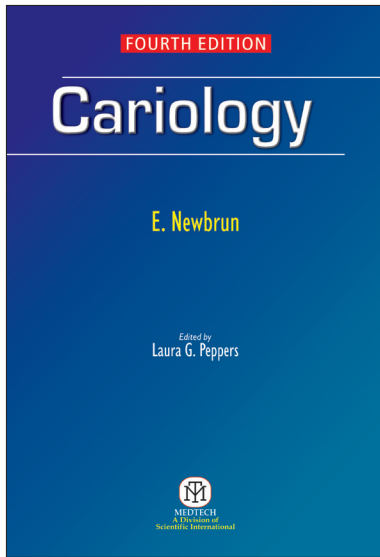
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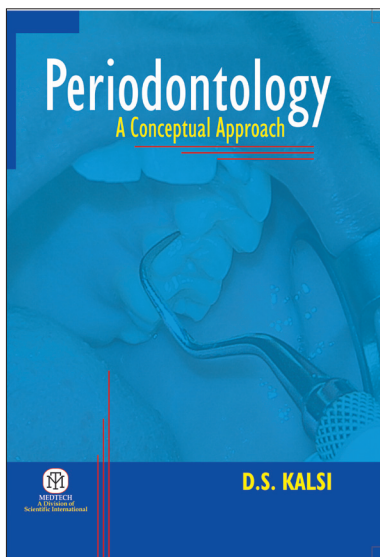
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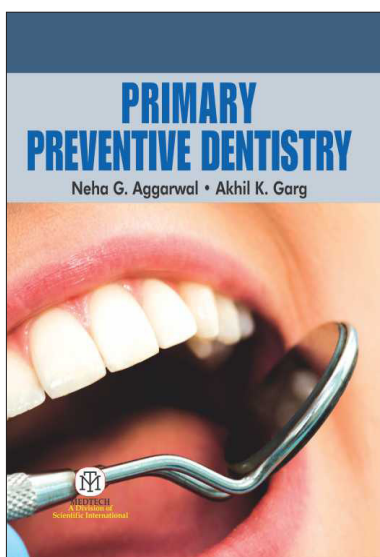
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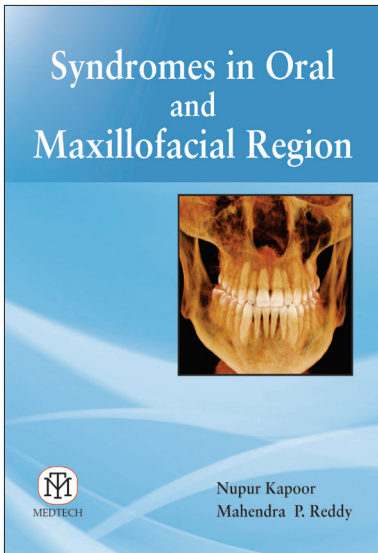
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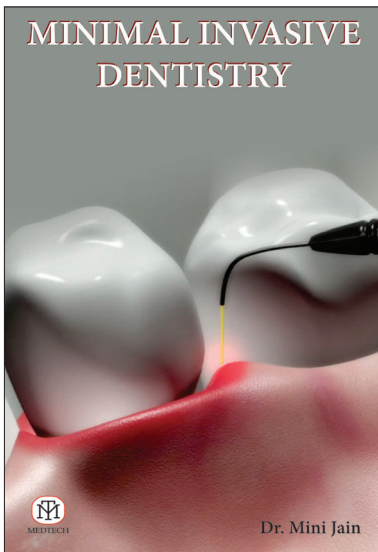
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## Minimal Invasive Dentistry

Mini Jain

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



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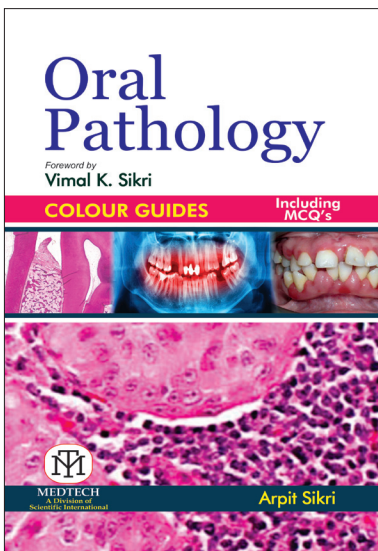
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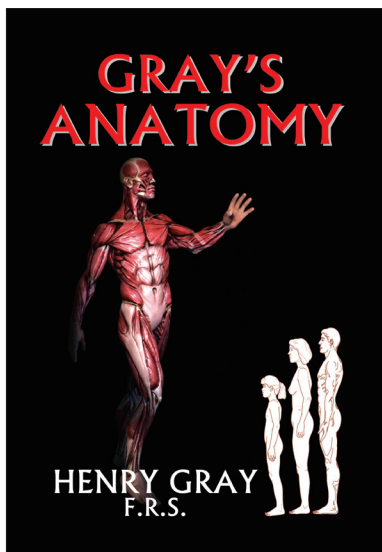
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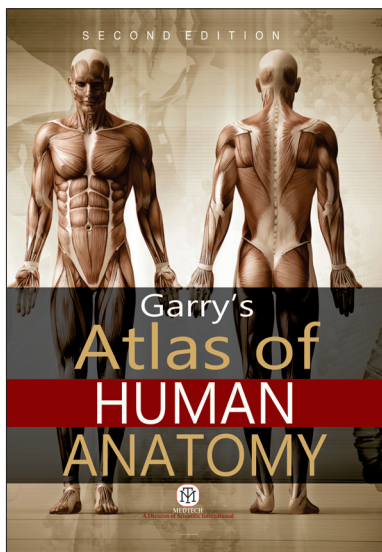
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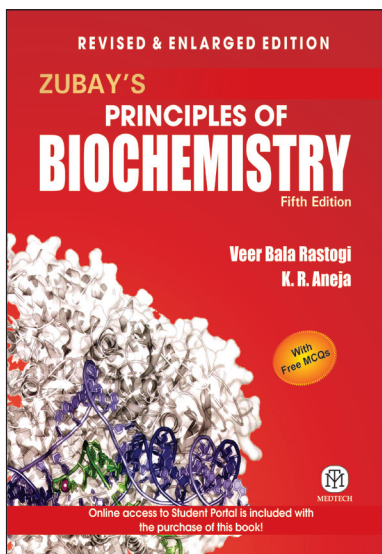
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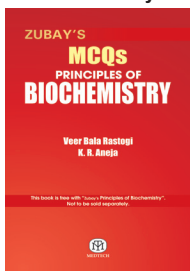
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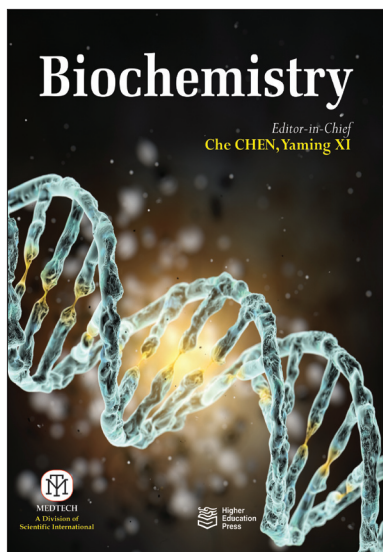


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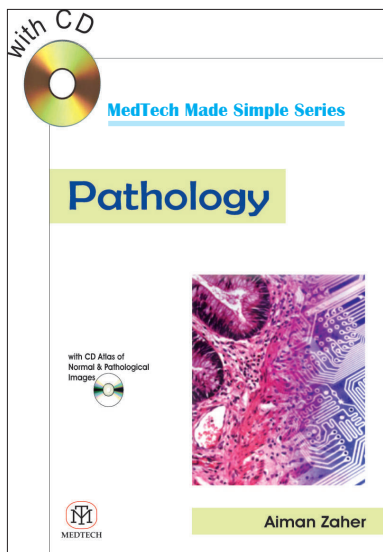
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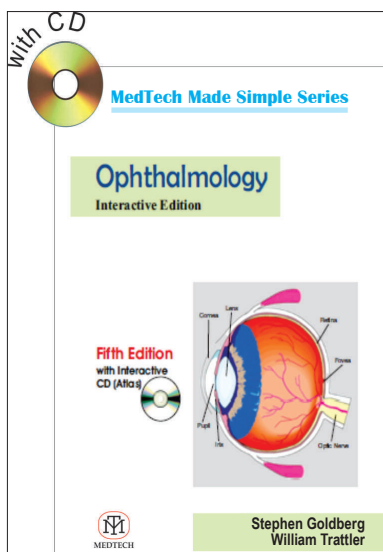
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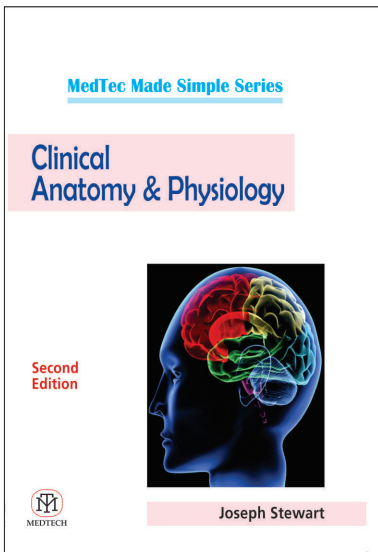
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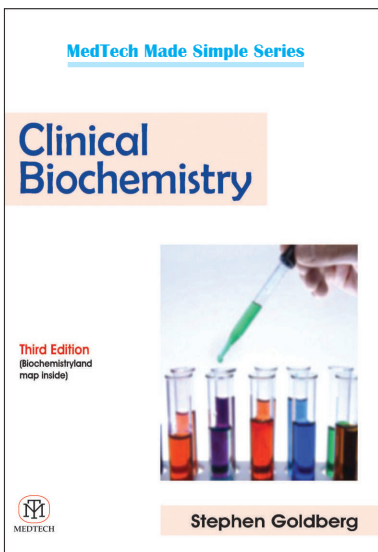
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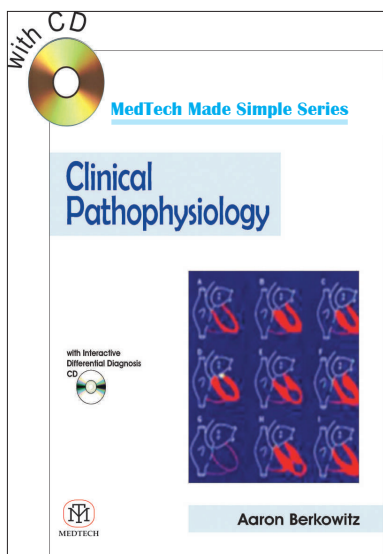
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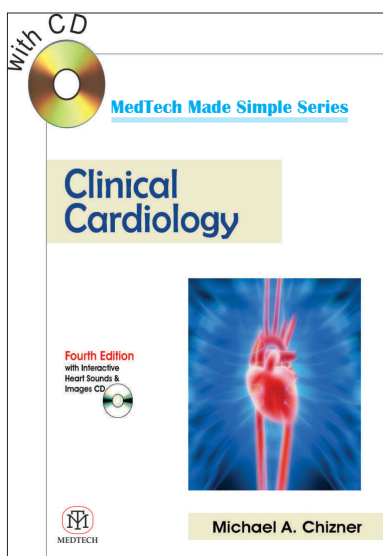
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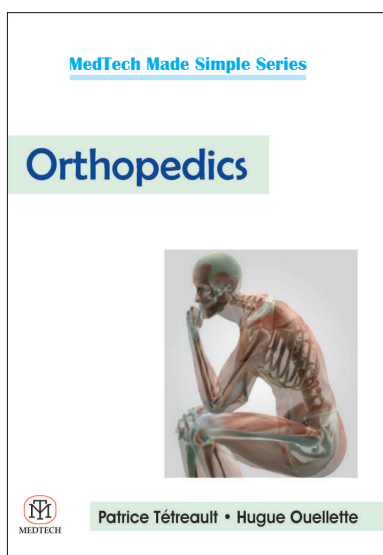
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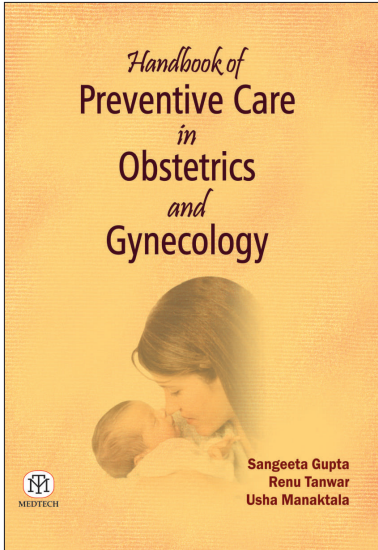
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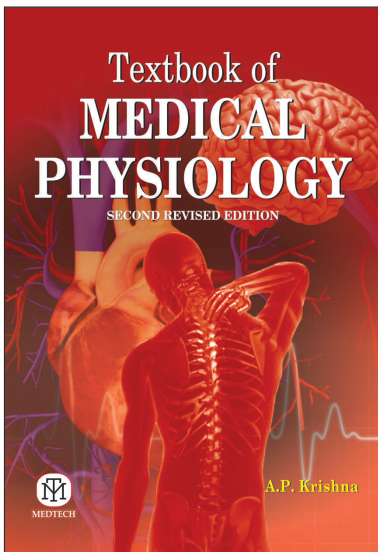
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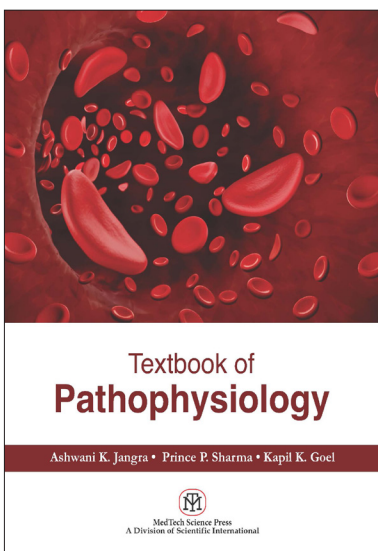
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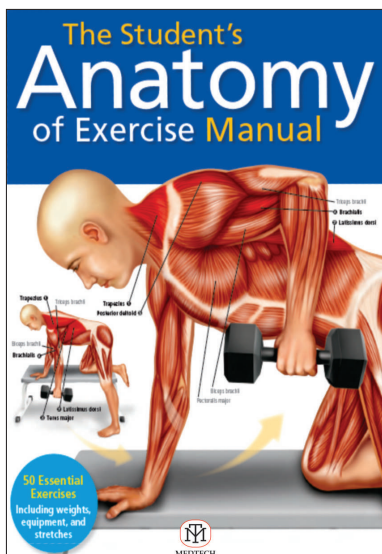
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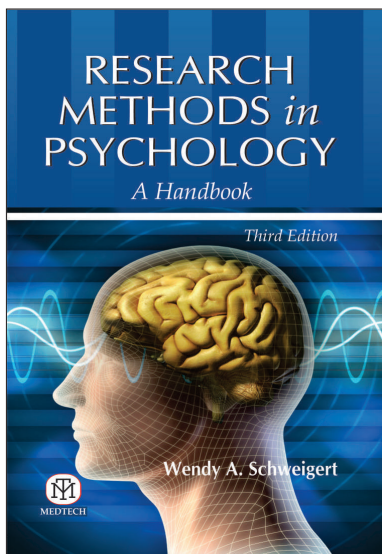
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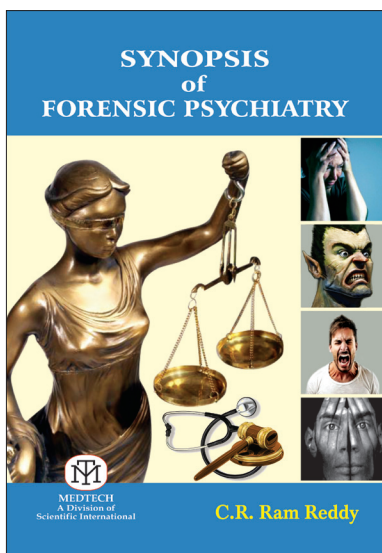
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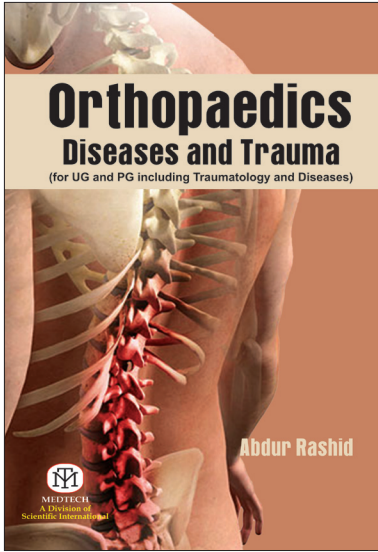
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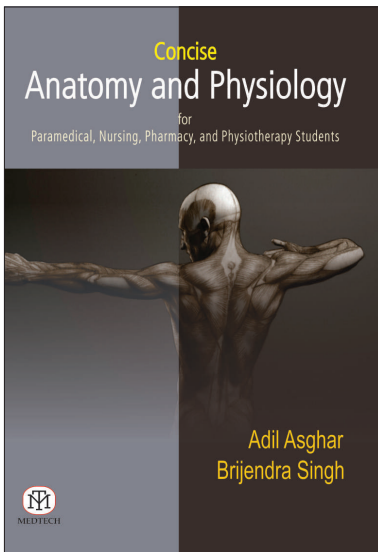
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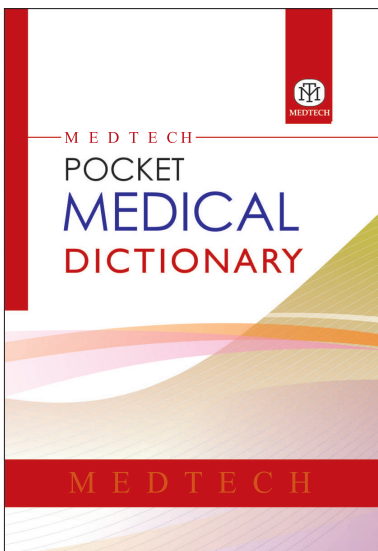
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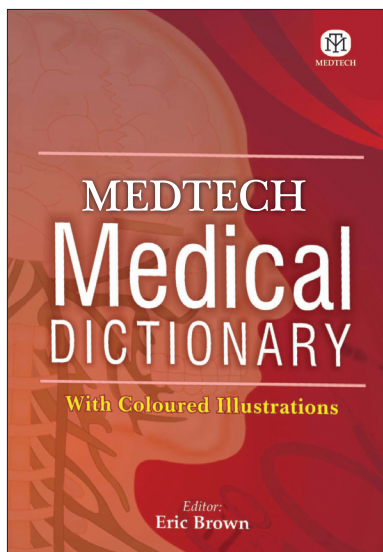
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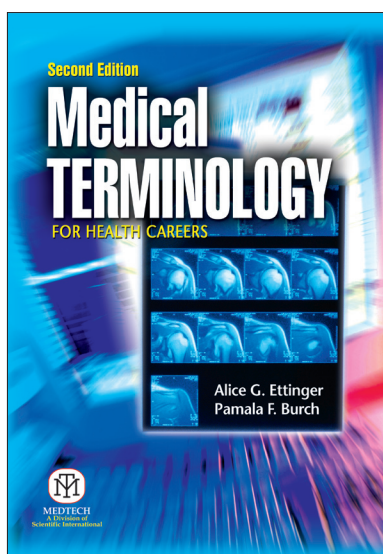


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## Medical Terminology

Alice G Ettinger • Pamala F Burch

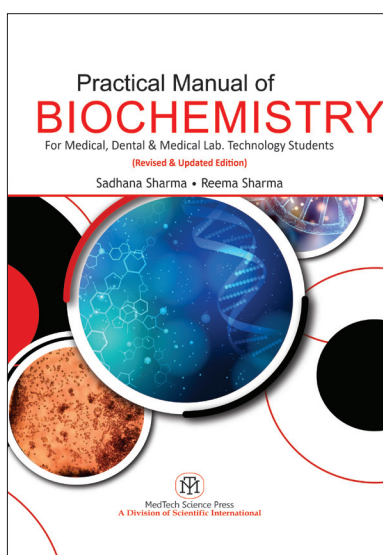
2nd Edition



### Contents

- ◆ Medical Terminology, the Language of Healthcare
- ◆ Whole Body and Healthcare Systems Terminology
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- ◆ The Musculoskeletal System
- ◆ Hematology and Oncology
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- ◆ The Nervous System
- ◆ The Special Senses: Vision, Hearing, Smell, Taste, and Touch
- ◆ The Respiratory System
- ◆ The Cardiovascular System ◆ The Gastrointestinal System
- ◆ The Urinary System ◆ The Male Reproductive System
- ◆ The Female Reproductive System ◆ Pregnancy, Birth, and Postpartum

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## Practical Manual of Biochemistry (For Medical, Dental & Medical Lab Technology Students)

Sadhana Sharma • Reema Sharma

### Contents

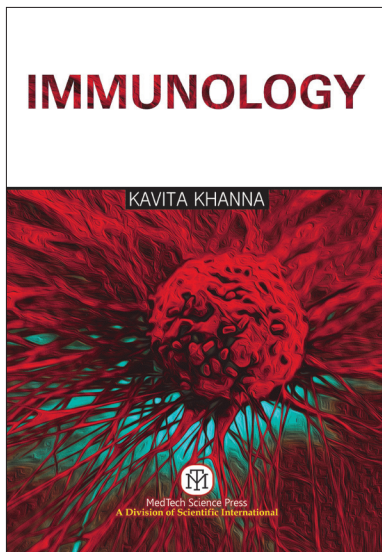
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## Immunology

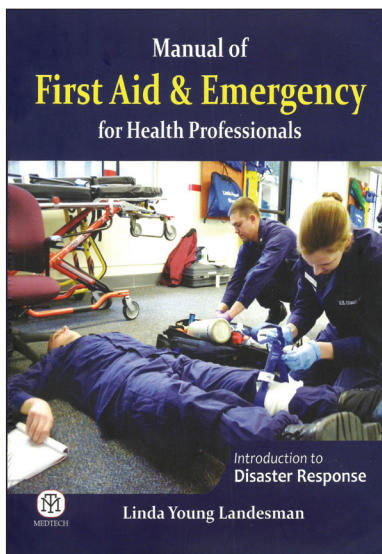
Kavita Khanna



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- ◆ Early Trends – Immunology ◆ Cells and Microenvironment of the Immune System
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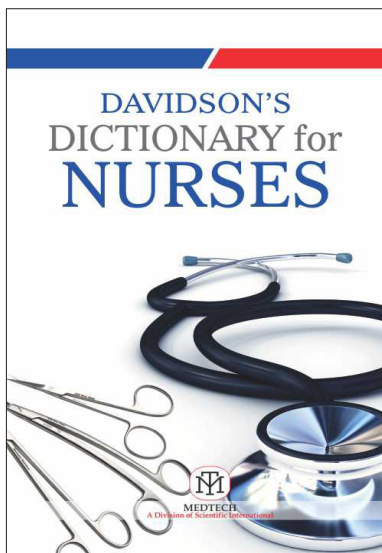
Linda Young Landesman

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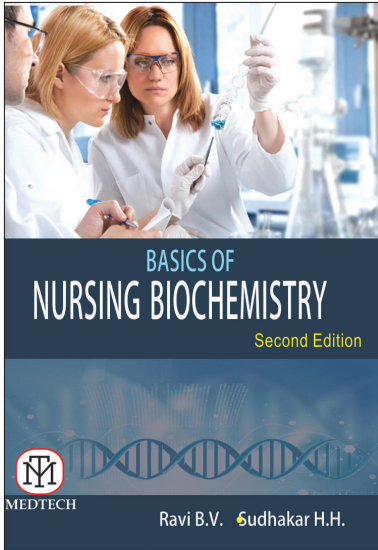


## DAVIDSON'S Dictionary for Nurses



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 reflect 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 filed of nursing

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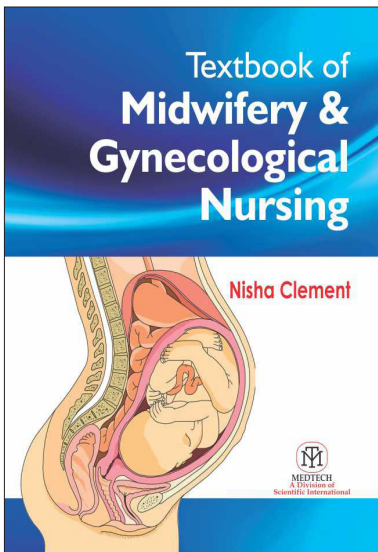
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- ◆ LFT, RFT, Nucleic Acid, Haem
- ◆ Urine
- ◆ Immunity

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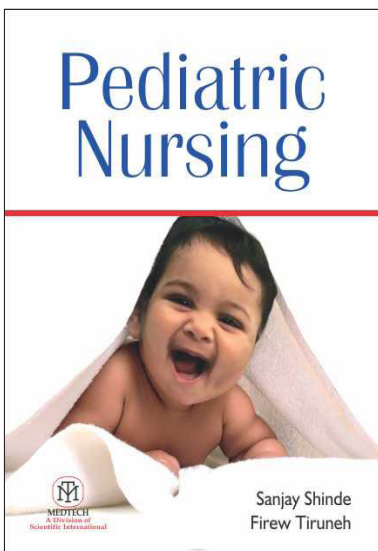
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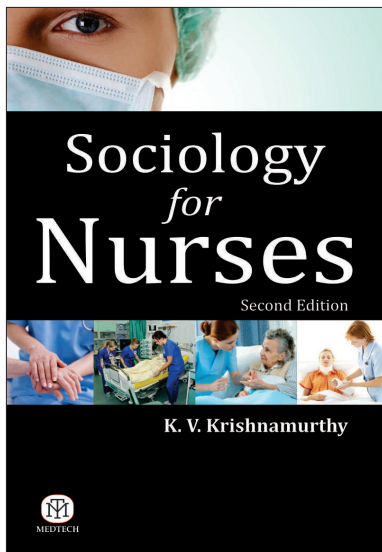
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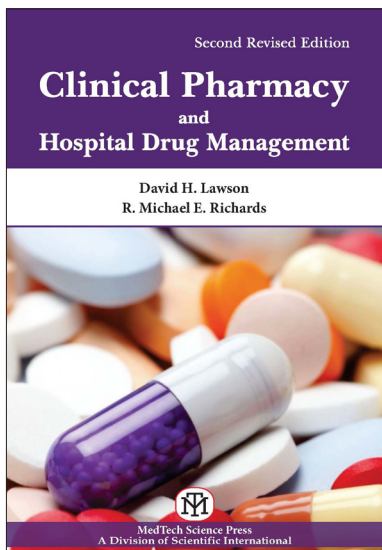
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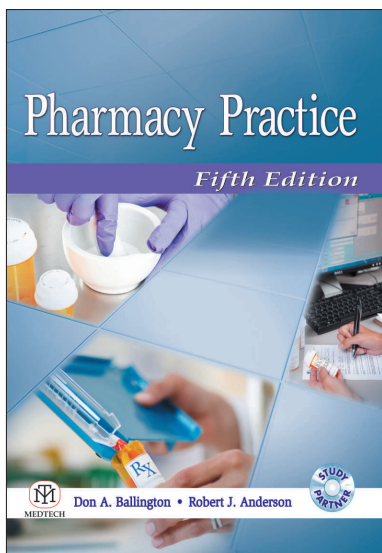
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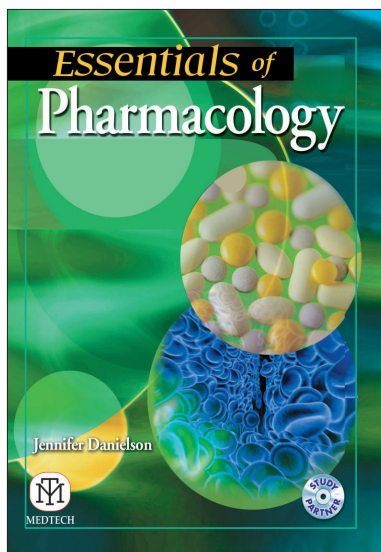
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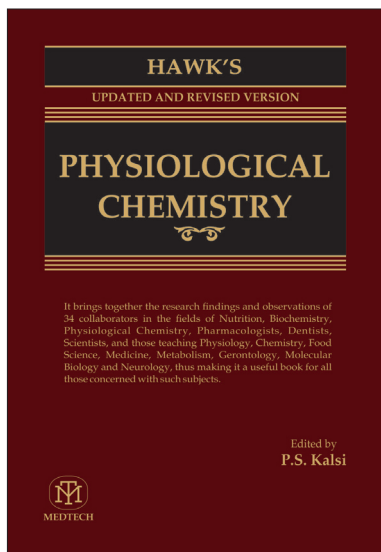
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Jennifer Danielson

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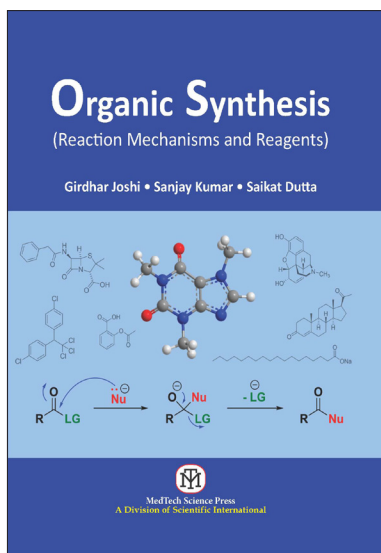
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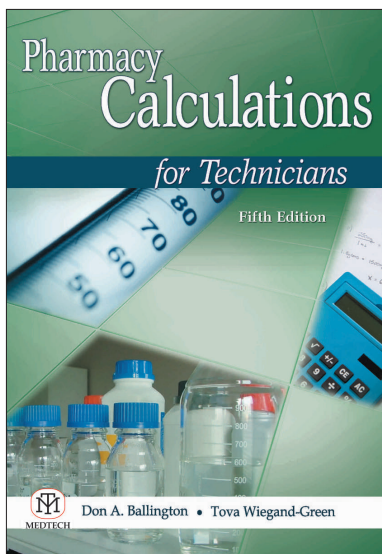
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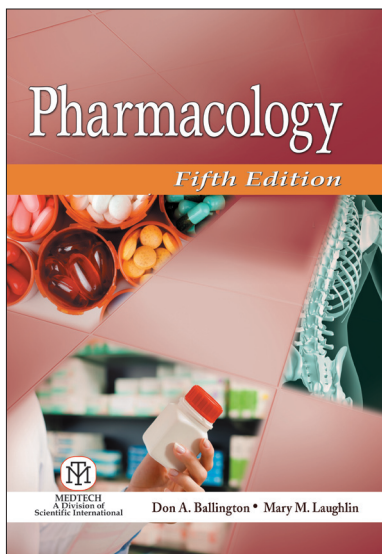
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- ◆ Understanding the Apothecary System
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## Pharmacology

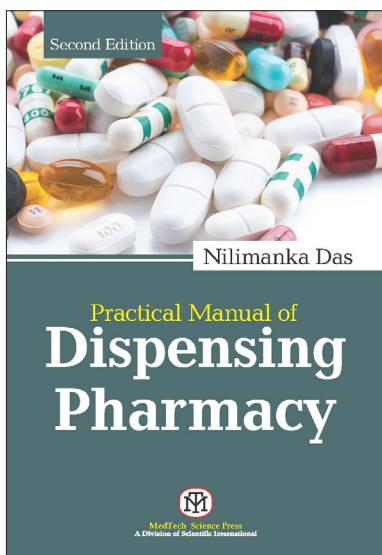
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Nilimanka Das

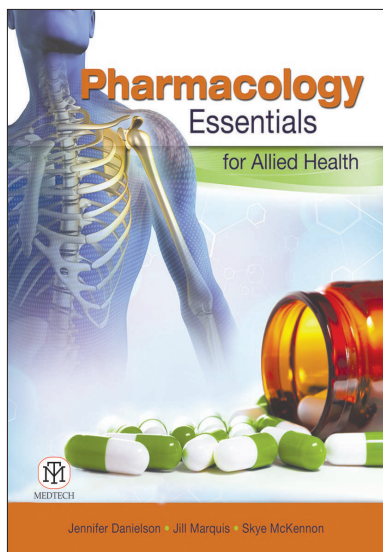
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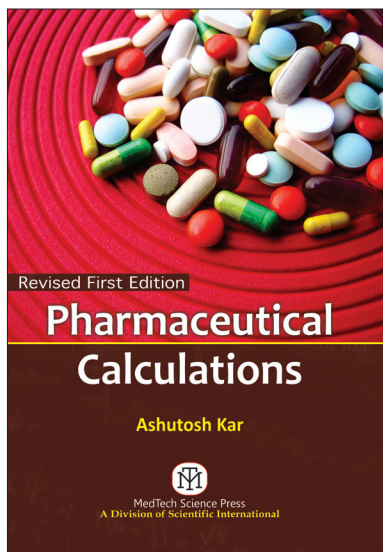
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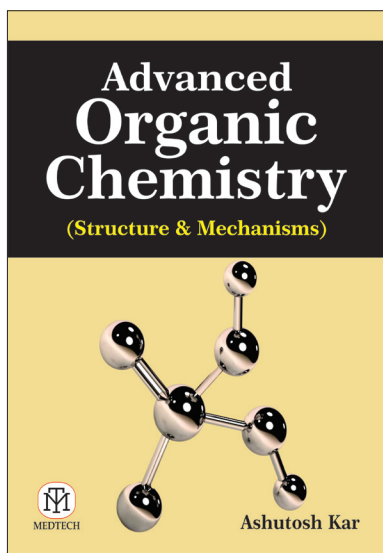
Ashutosh Kar

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### CHEMISTRY



## Advanced Organic Chemistry: Structure & Mechanisms

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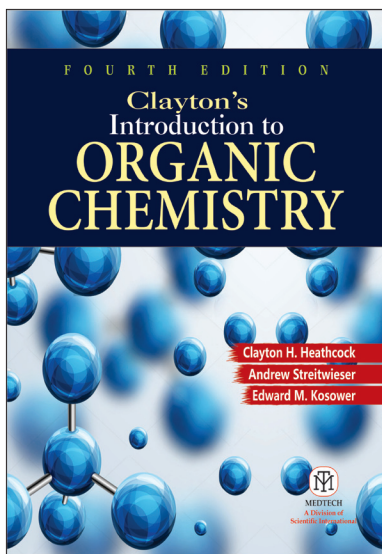
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- Section 2: Name Reactions Based on Product Formed** ◆ Reactions Giving Carbonyl Compounds ◆ Reactions Giving Alcohol—Hydroxy Carboxylic Acid and Phenols ◆ Reactions Giving Arenes ◆ Reactions Giving Saturated and Unsaturated Hydrocarbons ◆ Reactions Giving Carboxylic Acids and its Derivatives ◆ Reactions Giving Heterocyclic Compounds and its Derivatives ◆ Reactions Giving Halogen Derivatives ◆ Miscellaneous Organic Reactions
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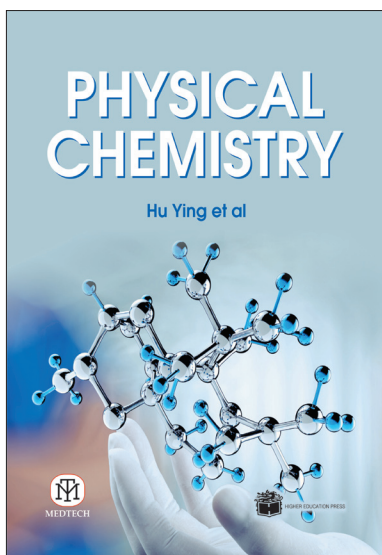
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Hu Ying *et al*

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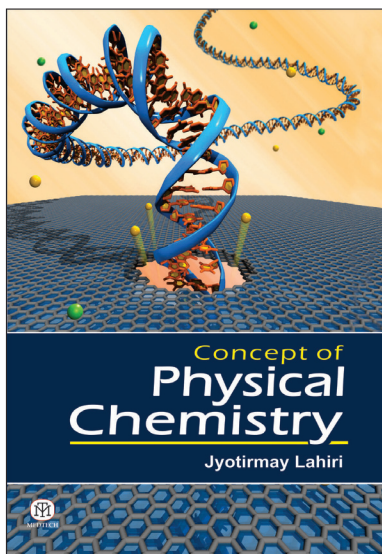
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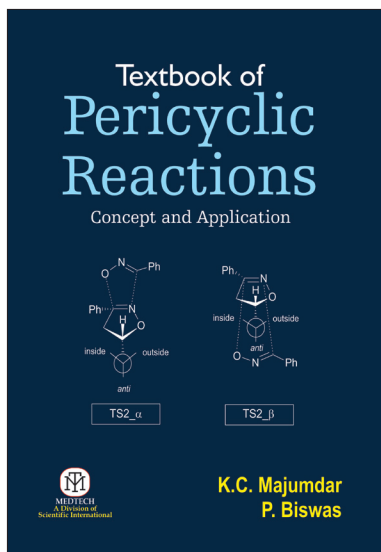
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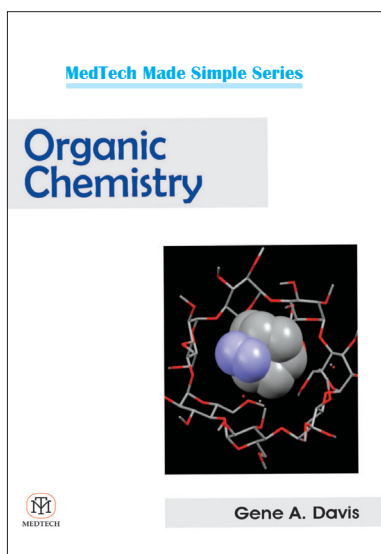
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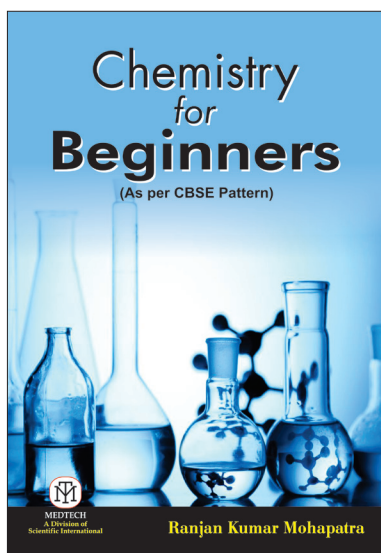
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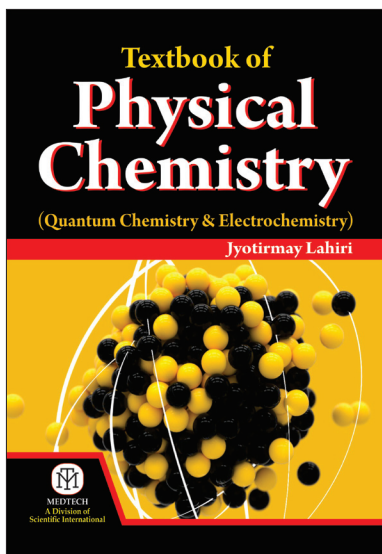


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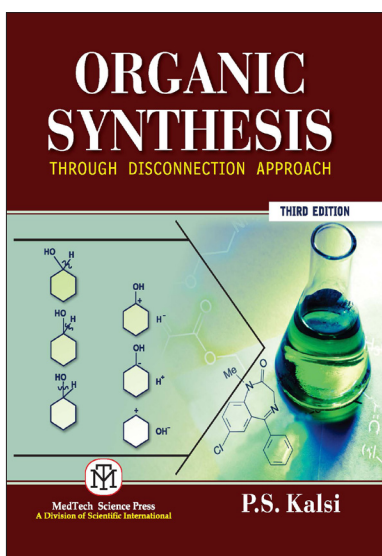
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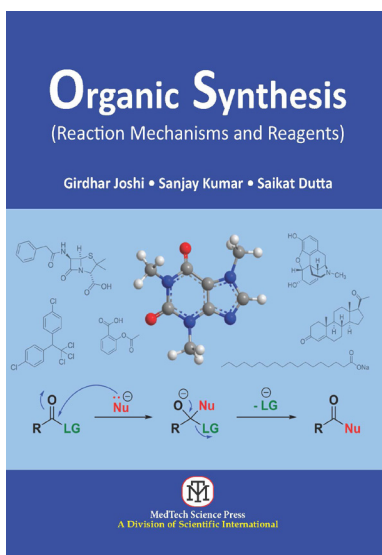
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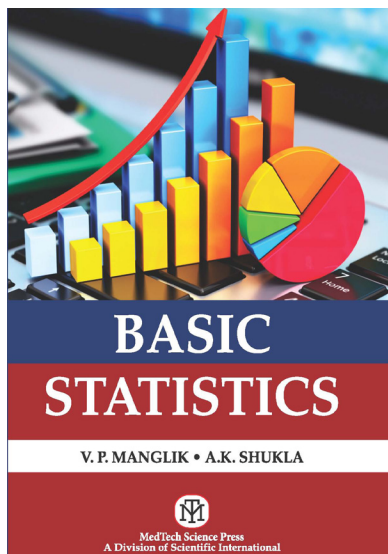
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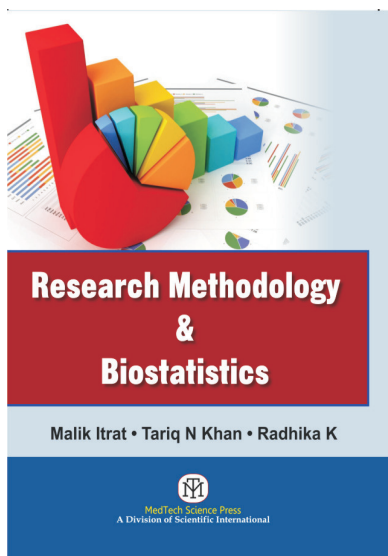
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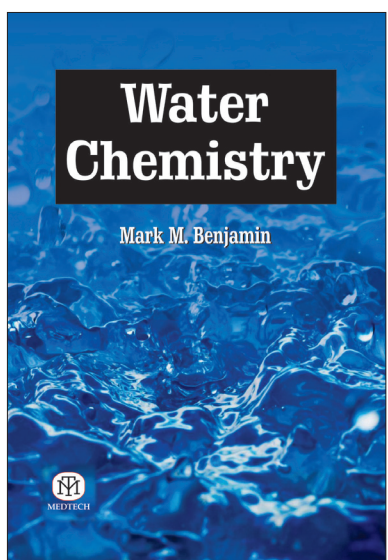
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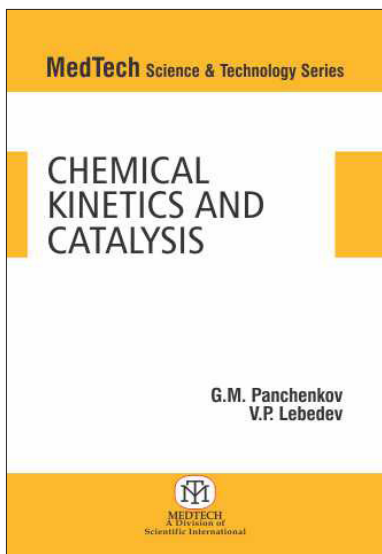
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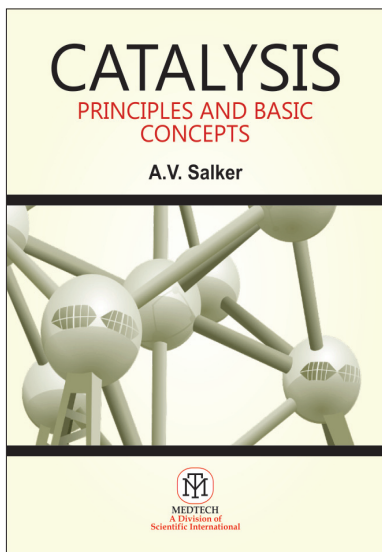
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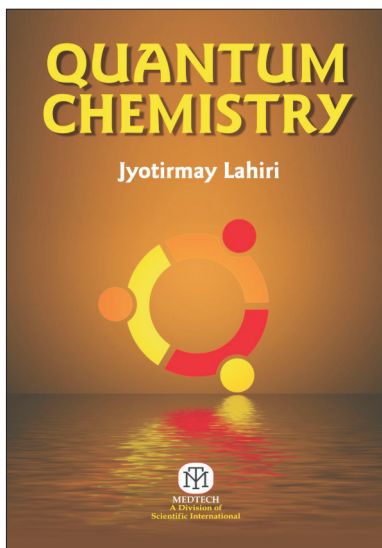
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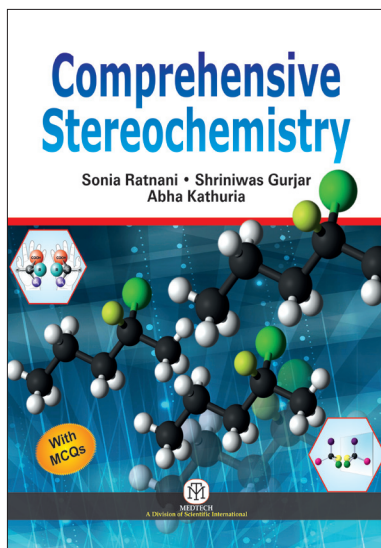
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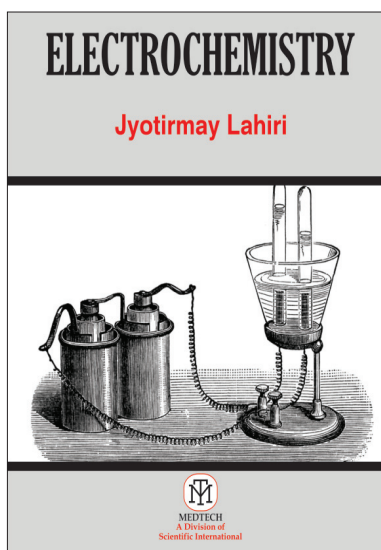
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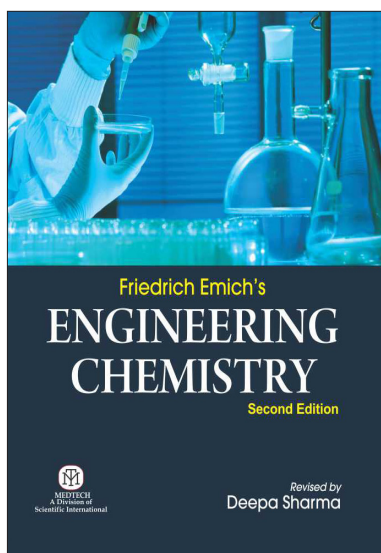
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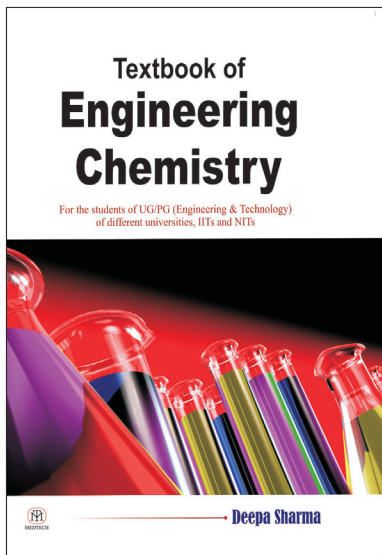
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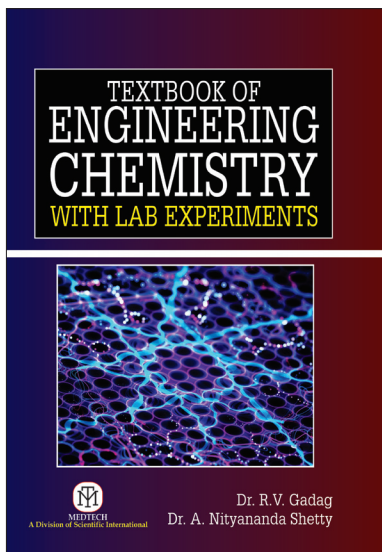
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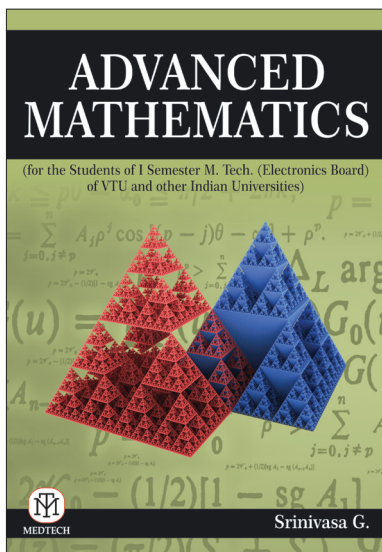
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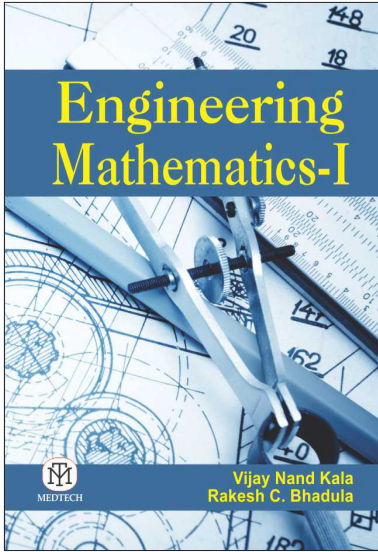
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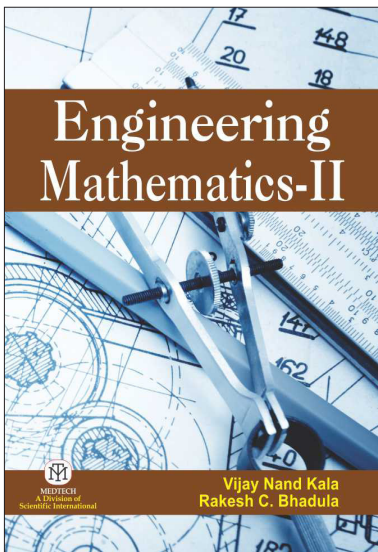
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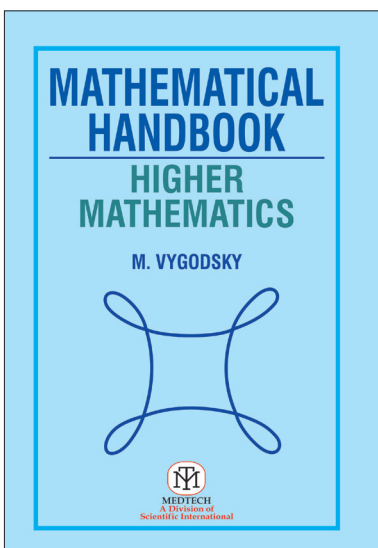
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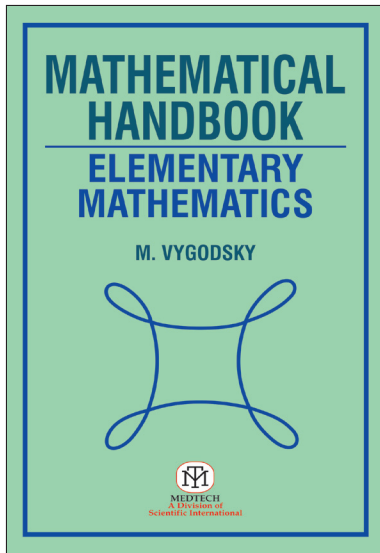
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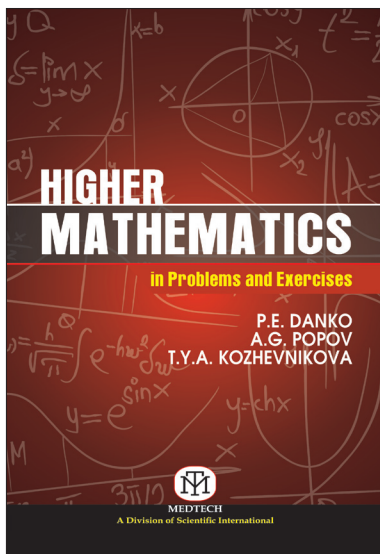
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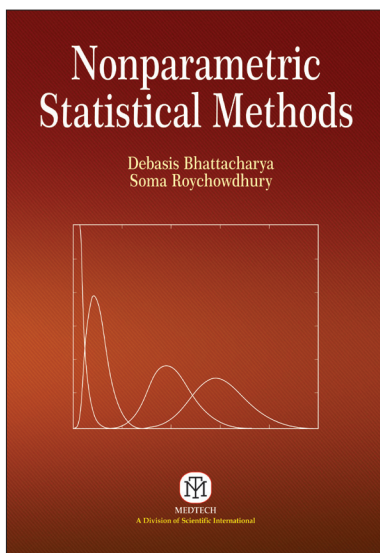
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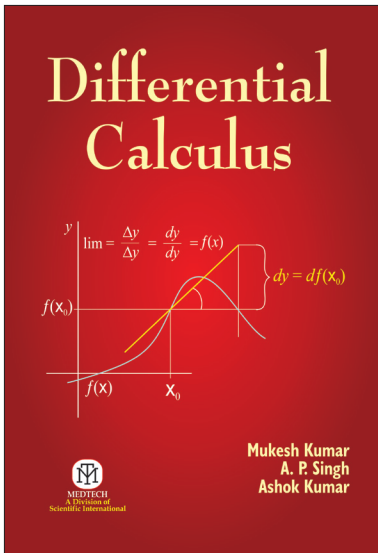
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- ◆ Singular Points ◆ Tracing of Cartesian and Polar Curves



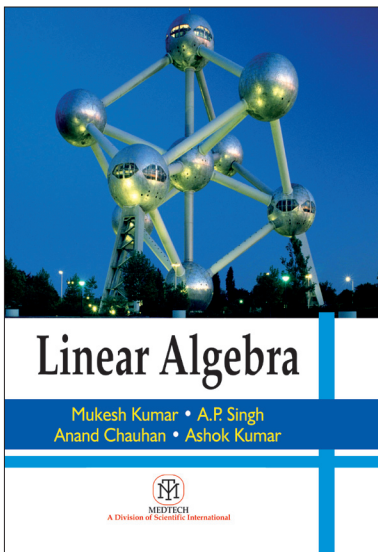
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- ◆ Eigenvalue and Eigenvector of the Matrix



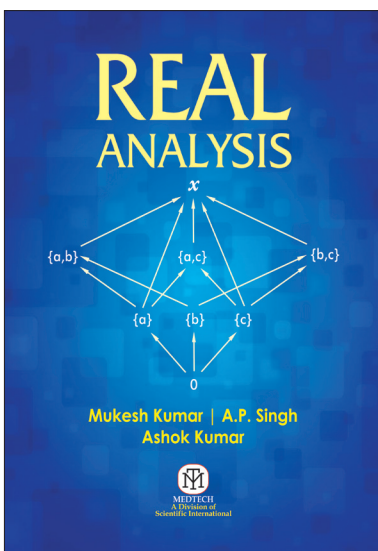
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## Real Analysis

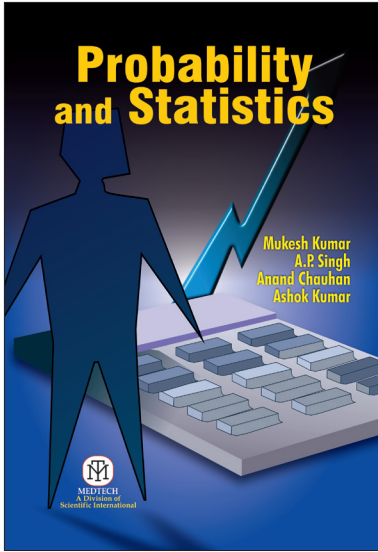
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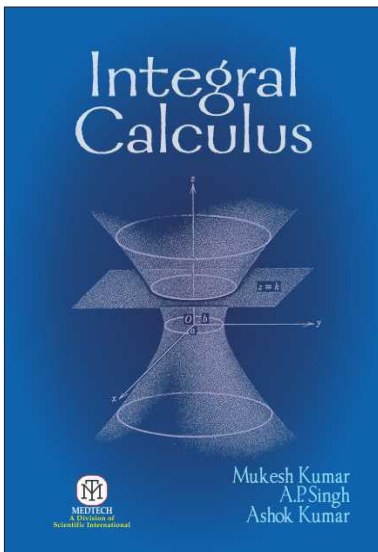
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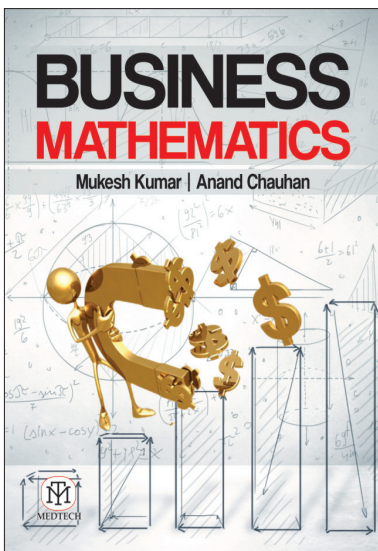
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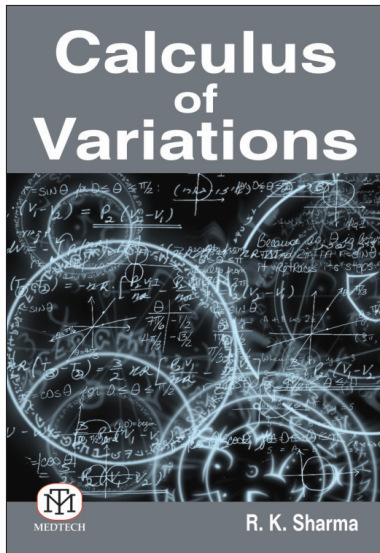
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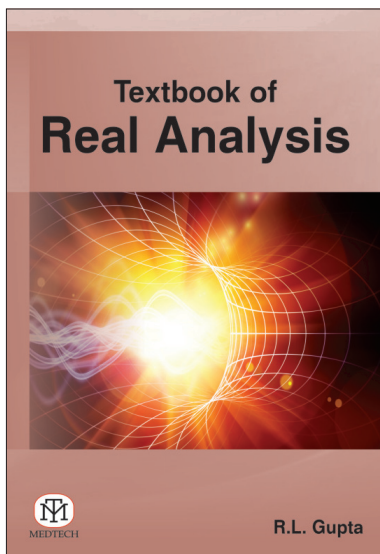
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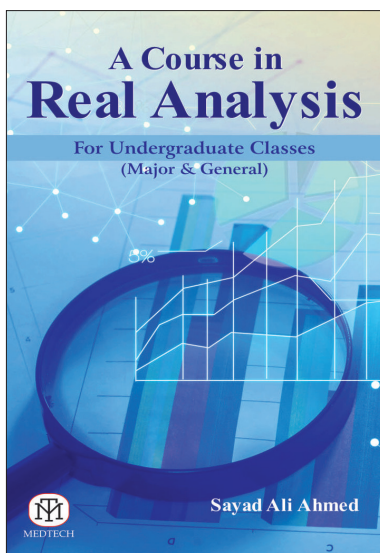
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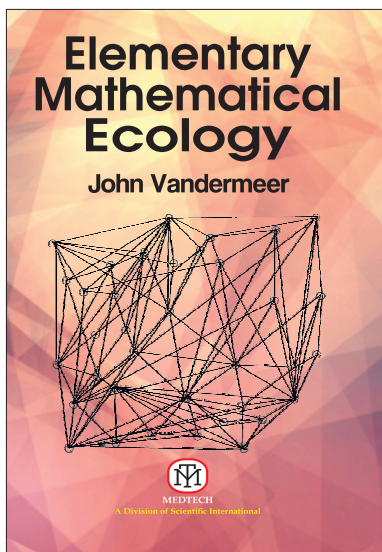
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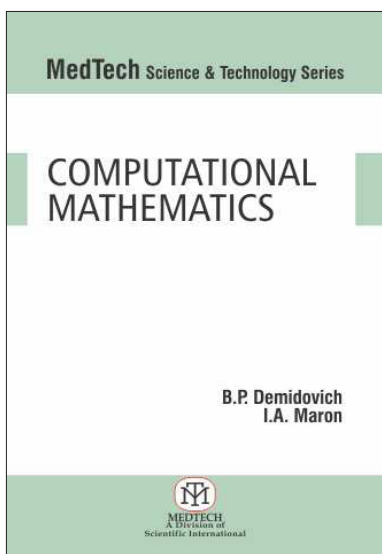
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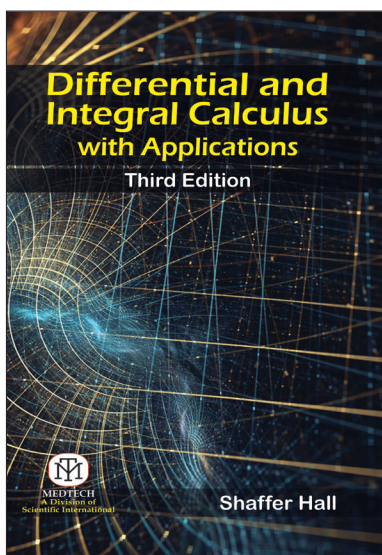
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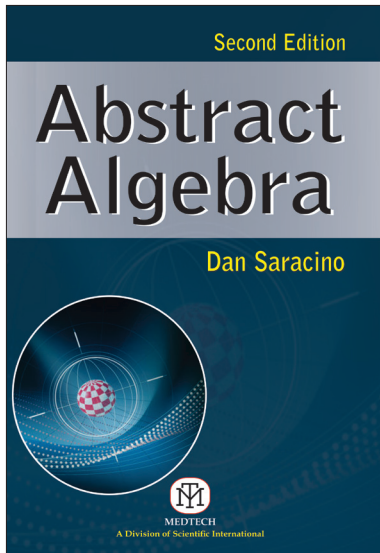
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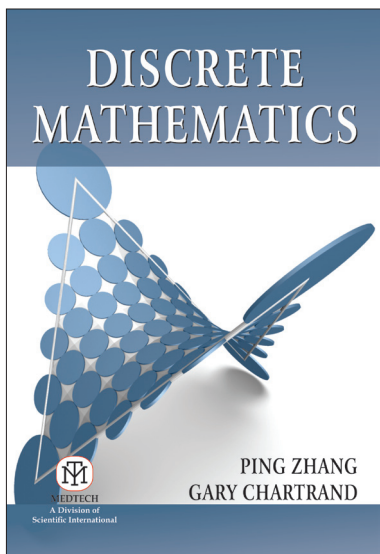
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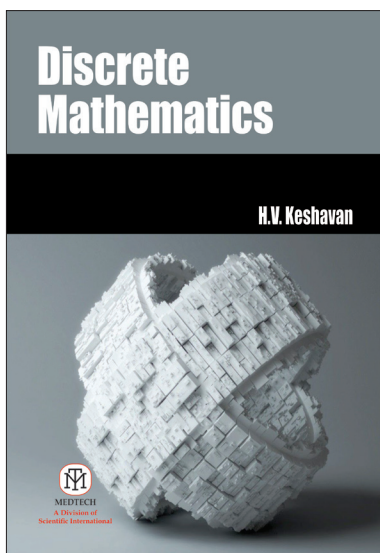
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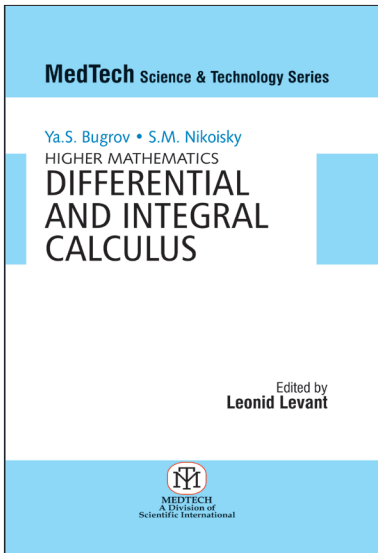
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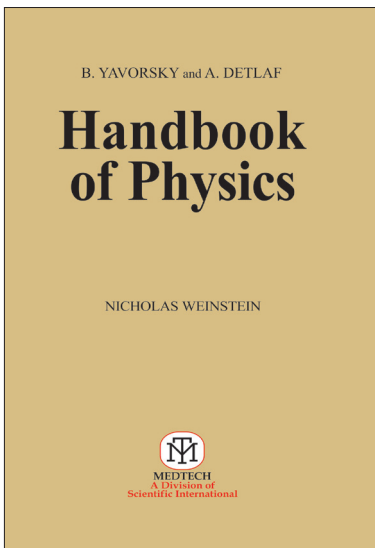
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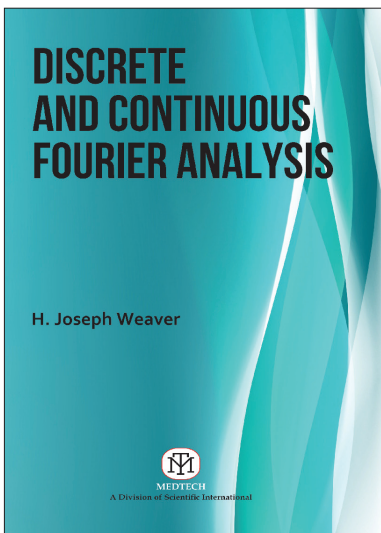
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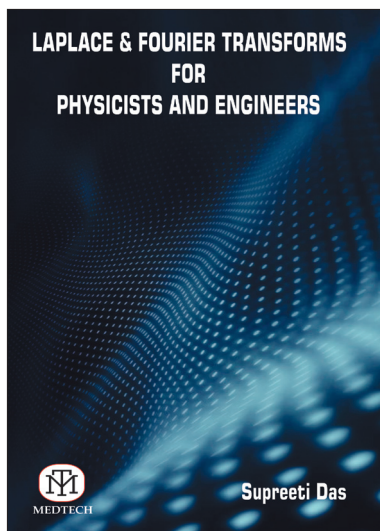
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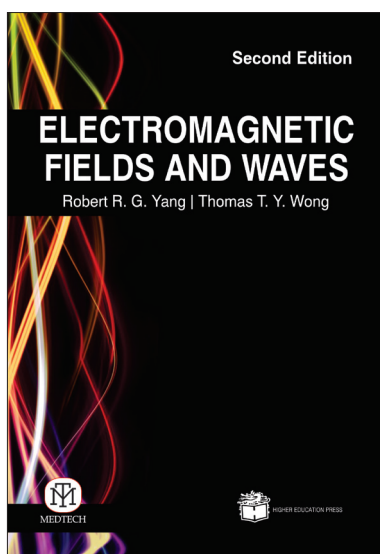
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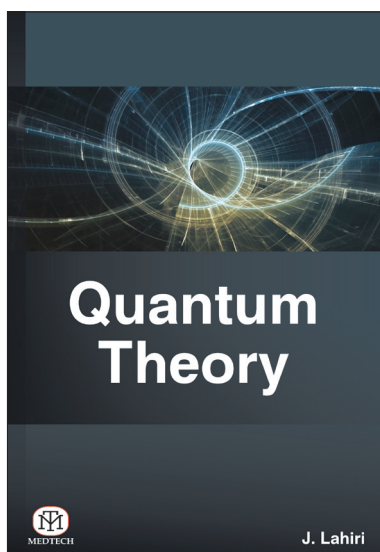
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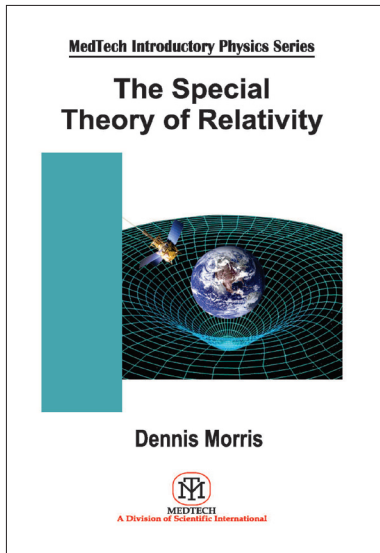
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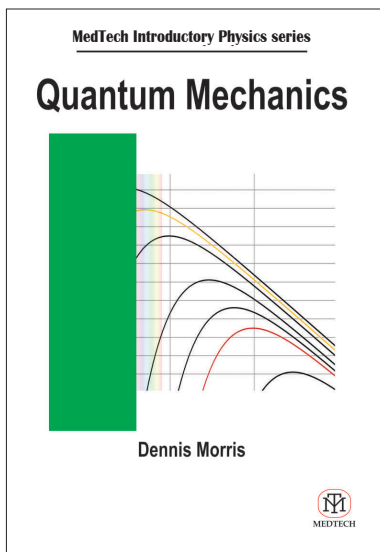
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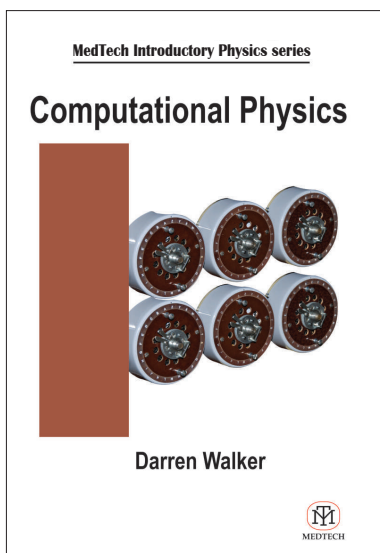
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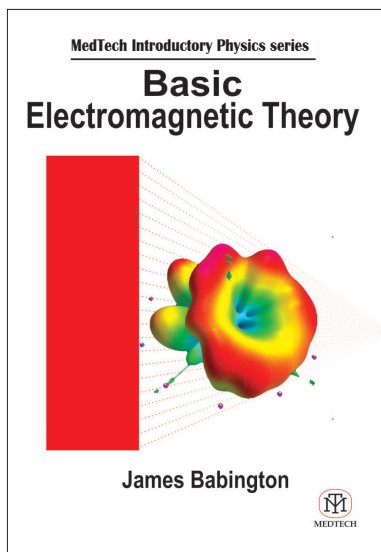


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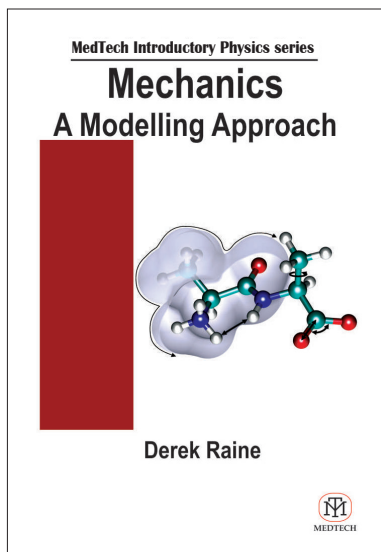
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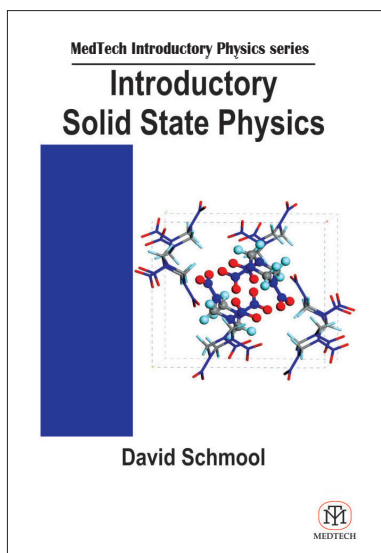
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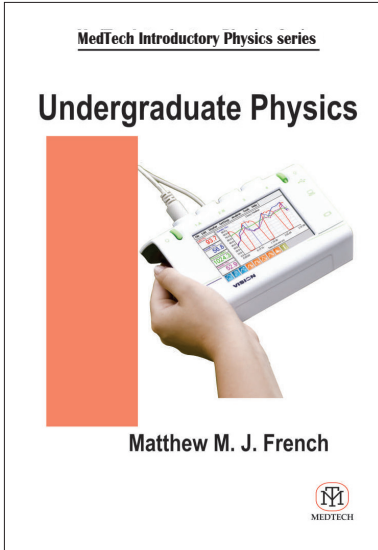
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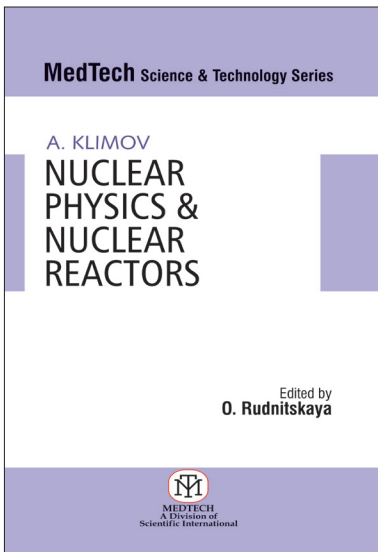
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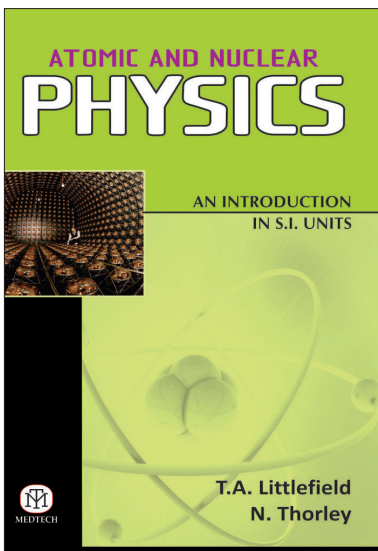
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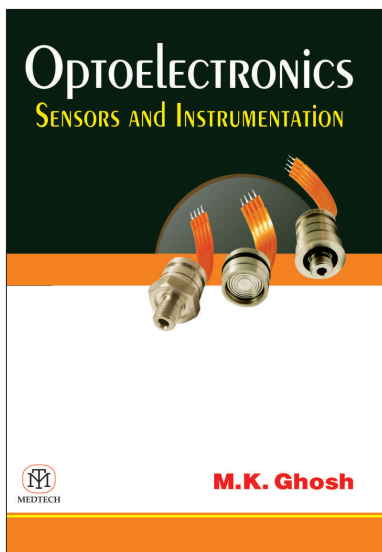
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- ◆ Kinetic Theory
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- ◆ Quantum Theory ◆ Spectra
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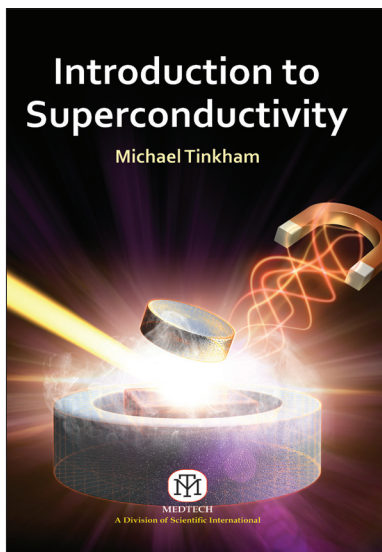
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- ◆ Optical Holography
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- ◆ Intensity Modulated Fibre Optic Sensors
- ◆ Phase Modulated Fibre Optic Sensors
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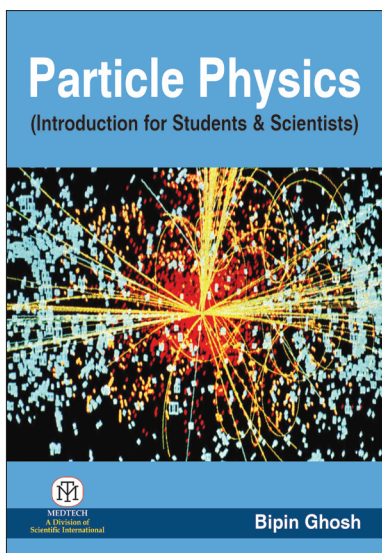
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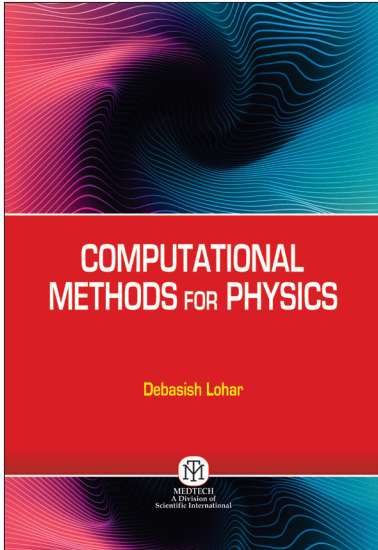
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- ◆ Quantum Chromodynamics—the Theory of Quarks
- ◆ Electron–Positron Collisions
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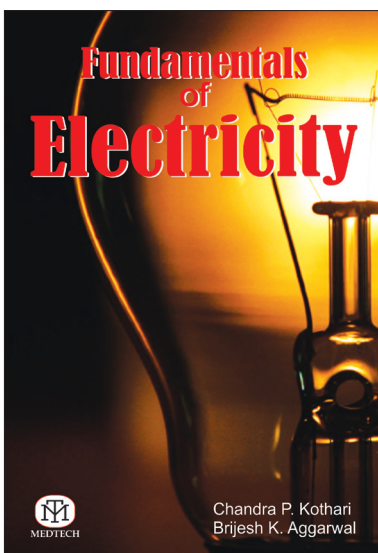
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- Unit I:** Interaction of Radiation and Charged Particles with Matter
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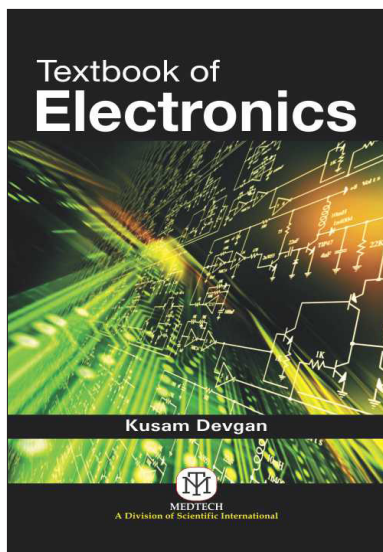
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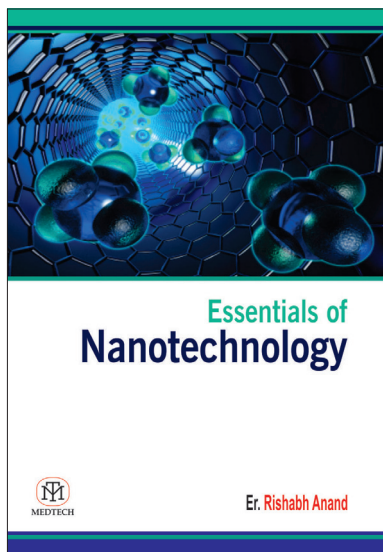
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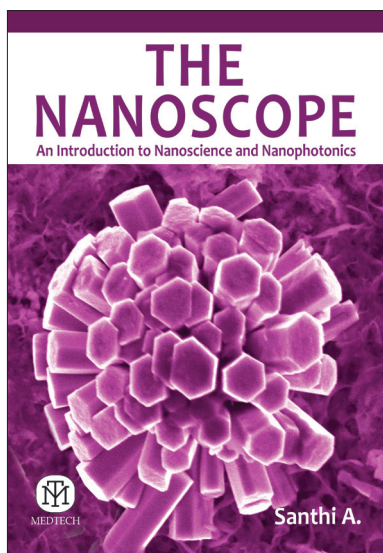
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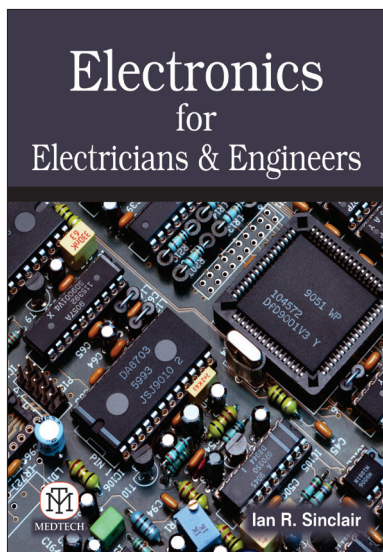
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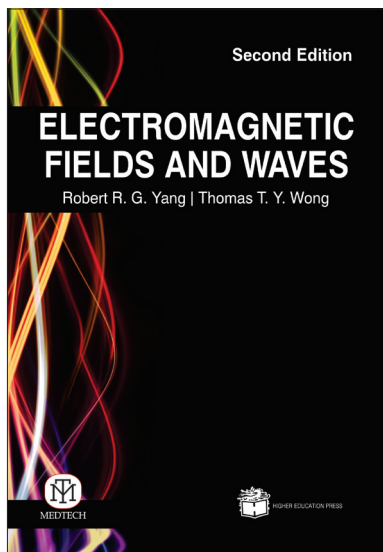
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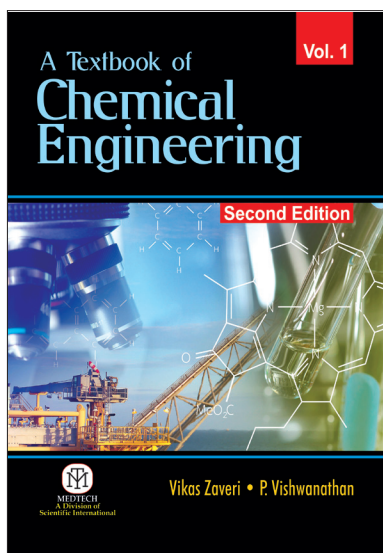
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- ◆ Time-varying Electromagnetic Fields
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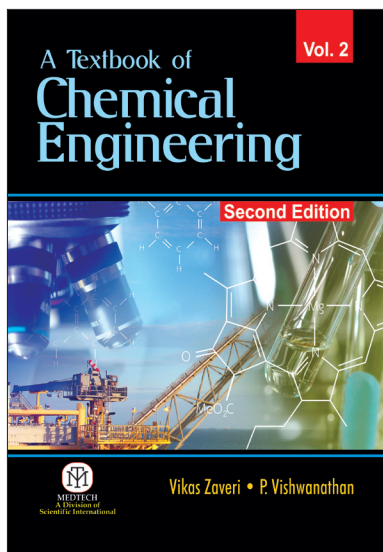
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- ◆ Fluids in Motion
- ◆ Newtonian and Non-Newtonian Fluids in Pipes and Open Channels
- ◆ Flow of Compressible Fluids
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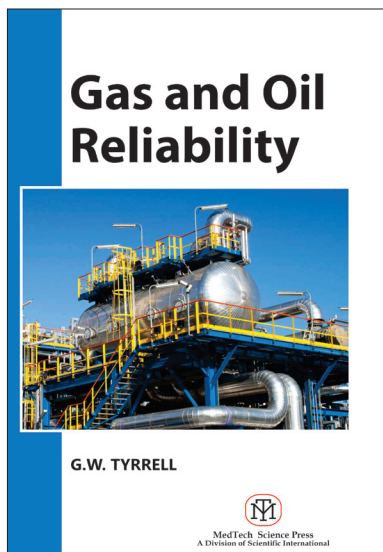
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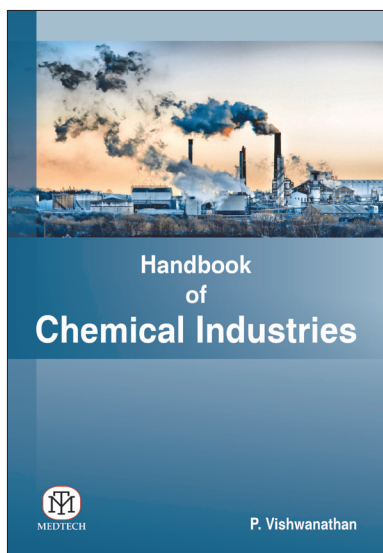
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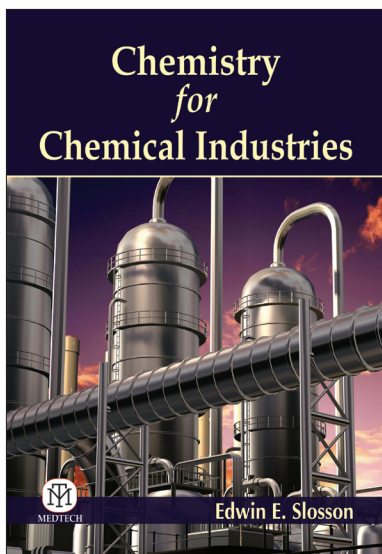
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- ◆ The Chemical Industry—Introduction, Fertilizers, Pesticides, Food Processing, Soaps and Detergents, Surface Coatings, Glass, Metallurgy, Photography and Copying, Conclusion
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- ◆ Petrochemistry—Introduction, Acetaldehyde and Aldol Chemistry, The OXO Reaction Acetone and Similar Ketone Chemistry, Vinyl Monomers, Ethylene Oxide and Related Chemistry, Aliphatic Amines, Recapitulation
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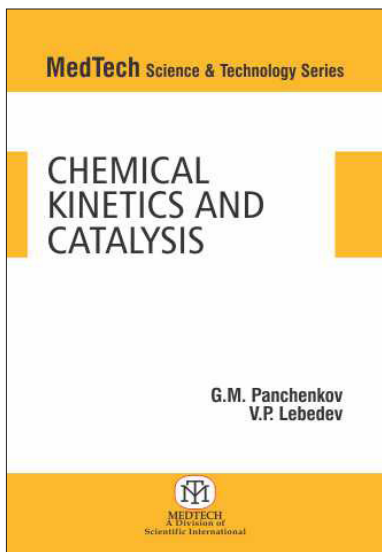
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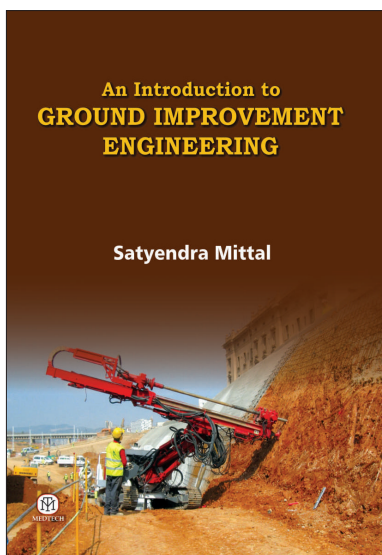
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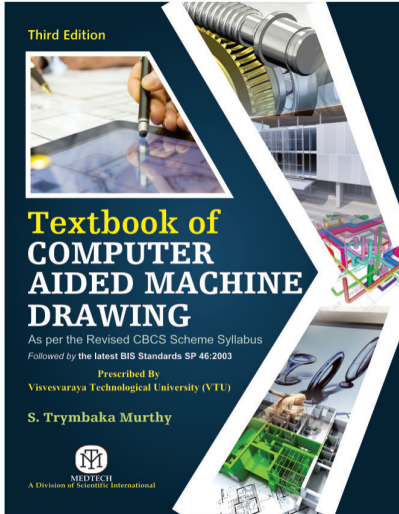
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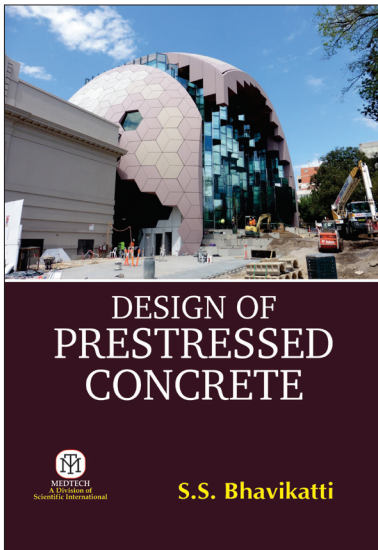
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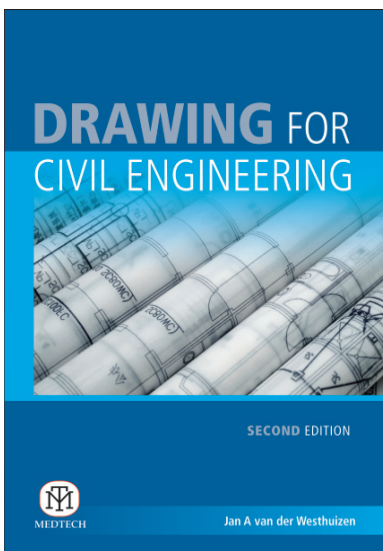
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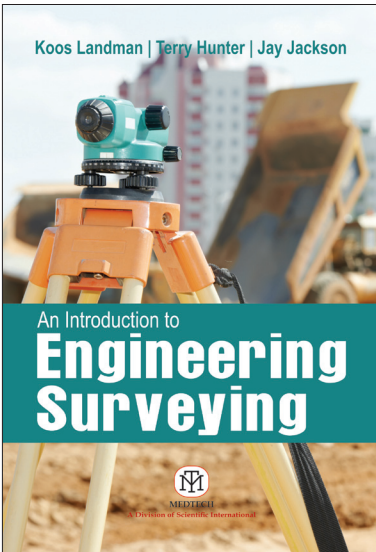
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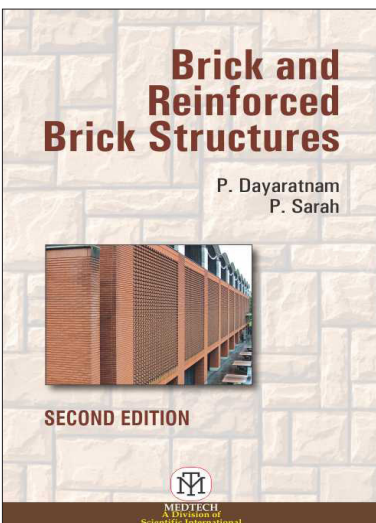
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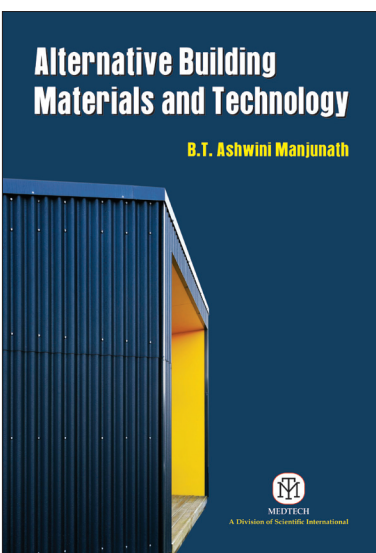
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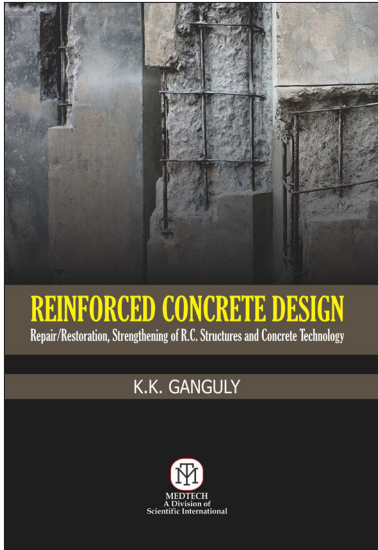
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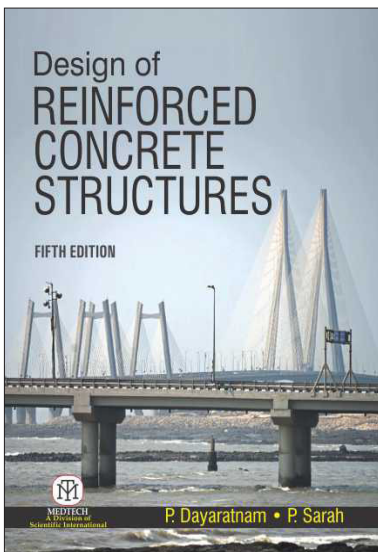
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- ◆ Deterioration, Repair/Strengthening/Retrofitting Methods, Repairing Materials and Repair of Underwater Structures
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## Design of Reinforced Concrete Structures

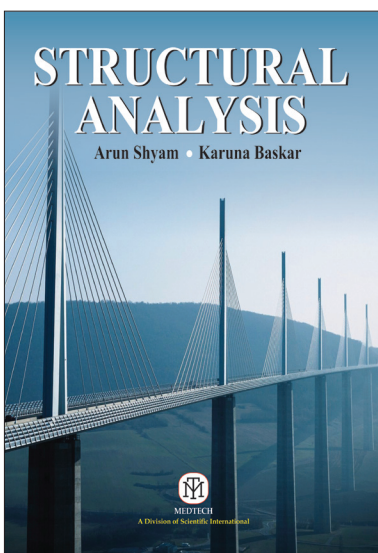
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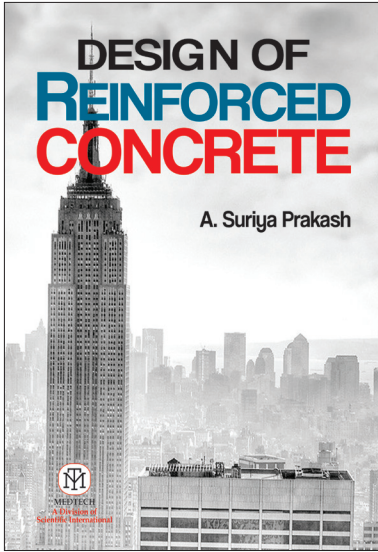
## Structural Analysis

Arun Shyam • Karuna Baskar

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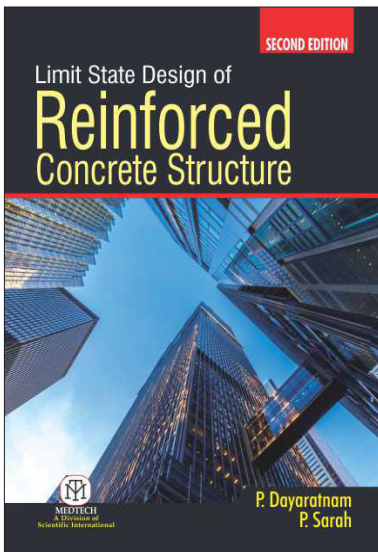
## Design of Reinforced Concrete

A Suriya Prakash

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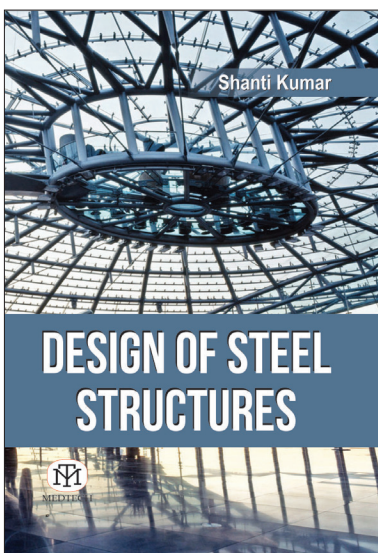
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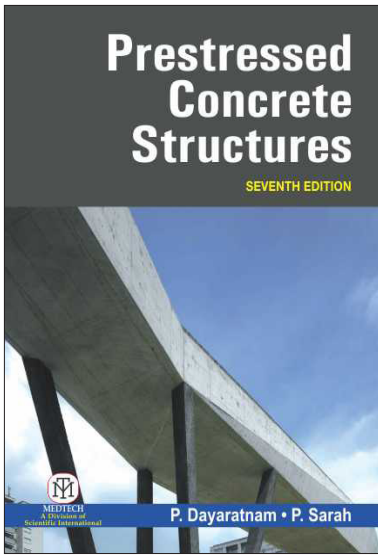
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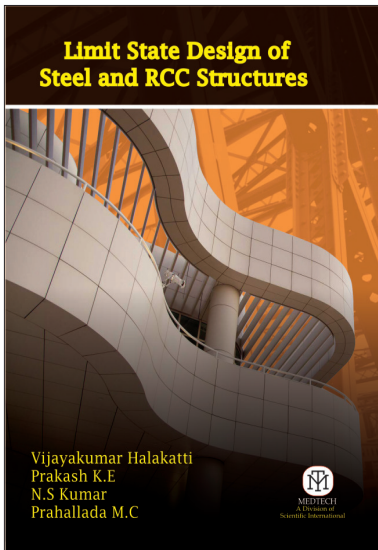
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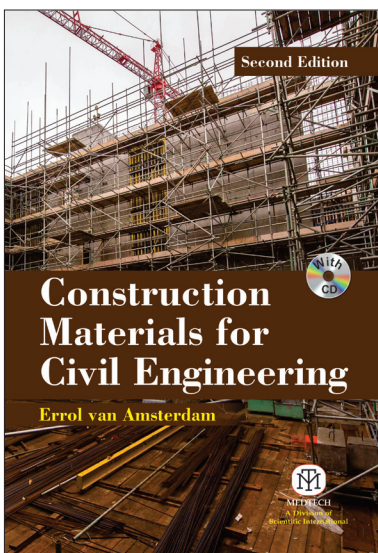
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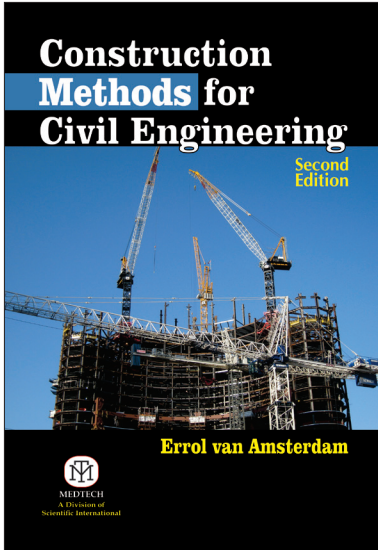
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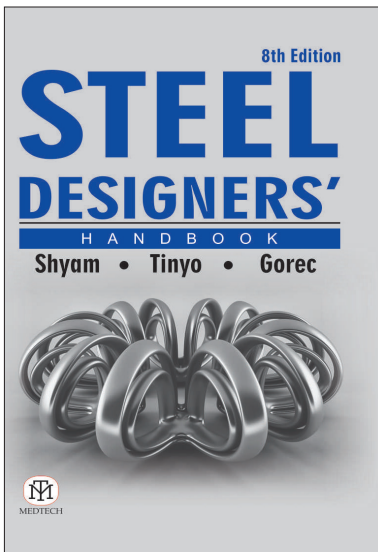
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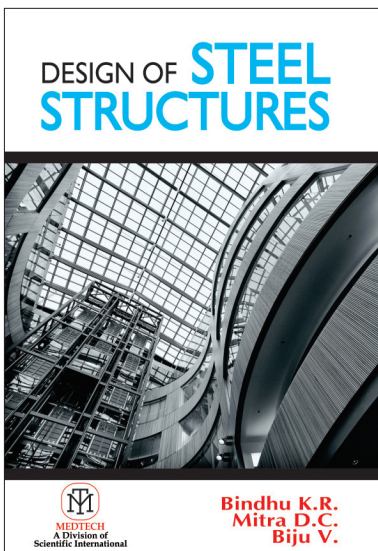
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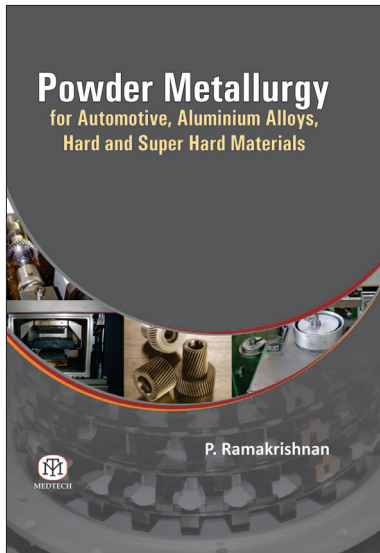
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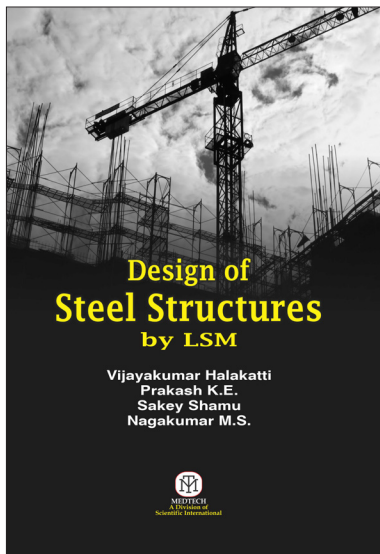
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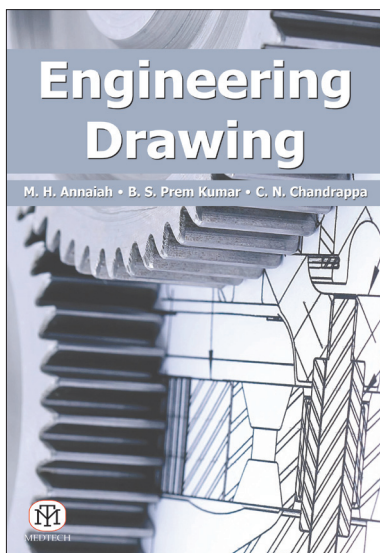
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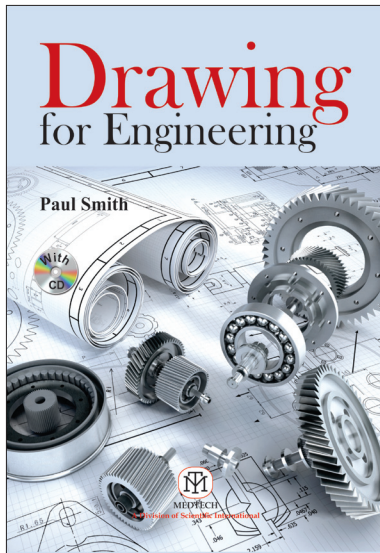
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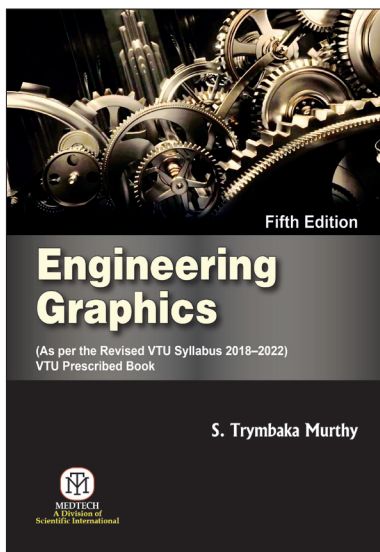
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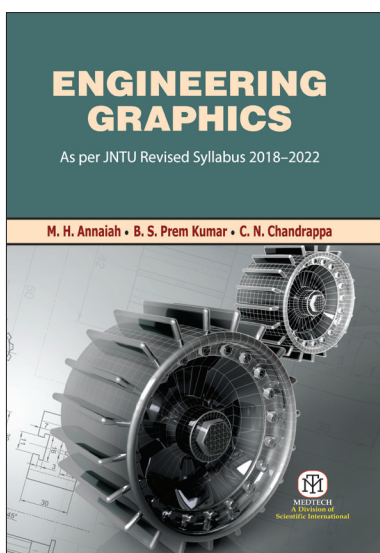
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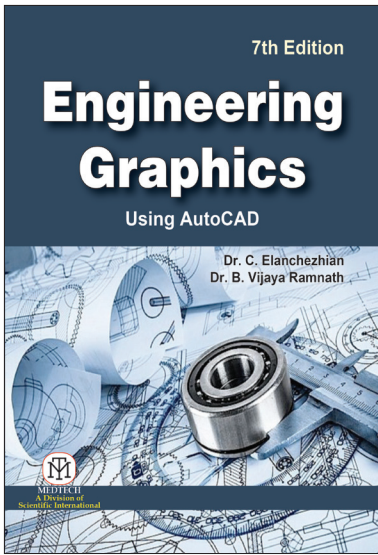
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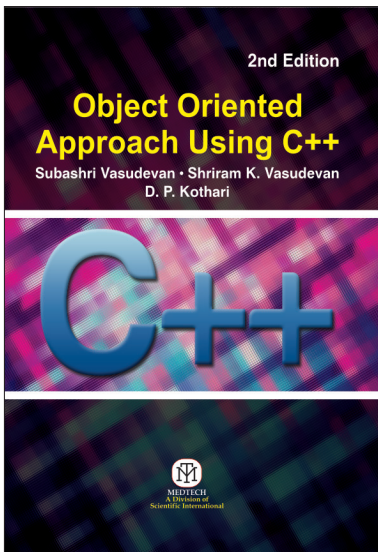
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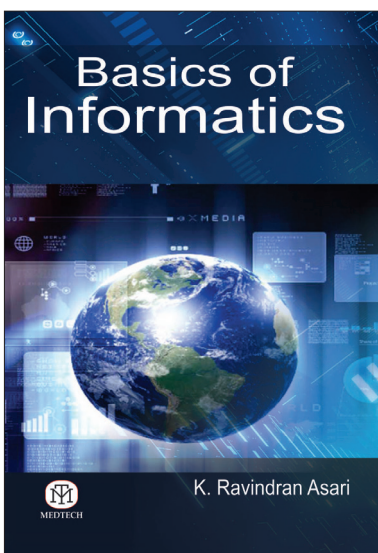
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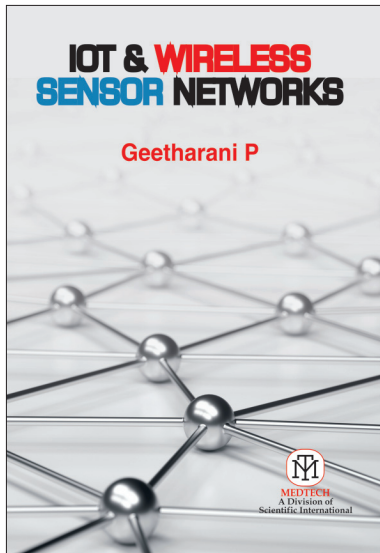
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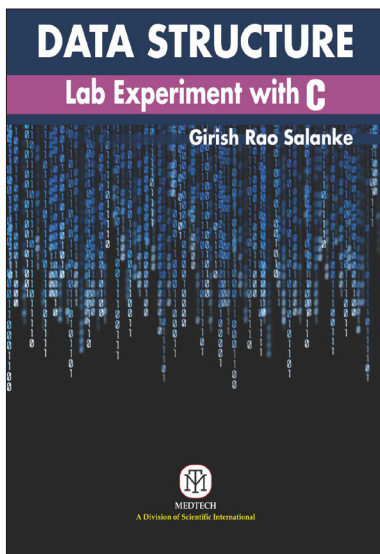
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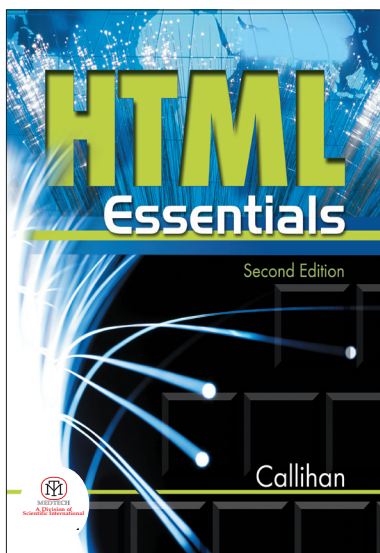
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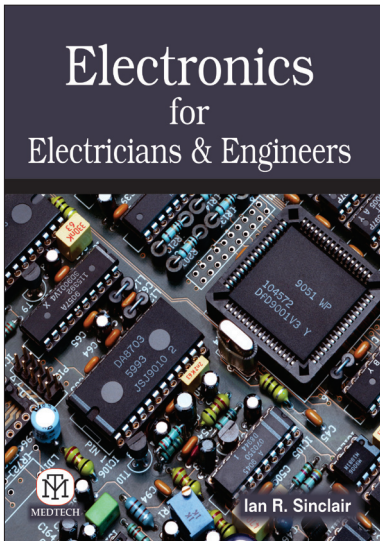
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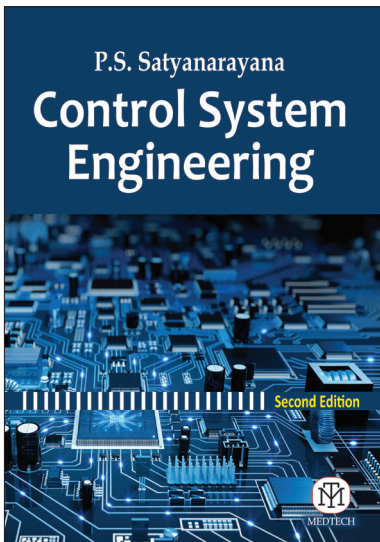
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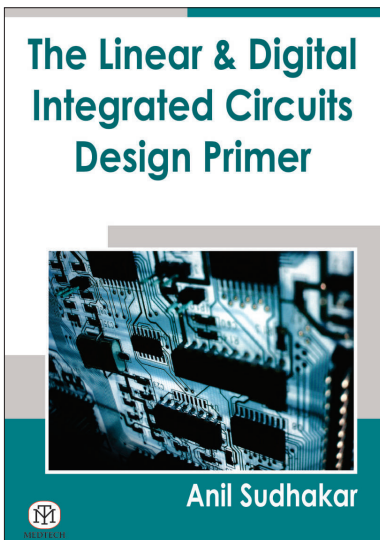
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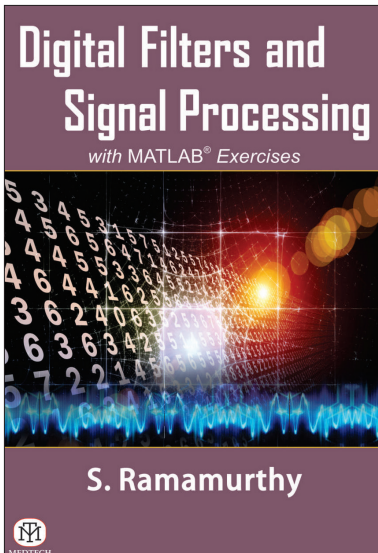
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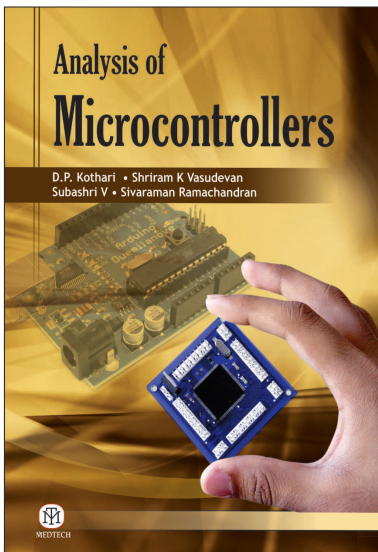
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- ◆ Digital Filter Implementation ◆ Filter and Systems Examples

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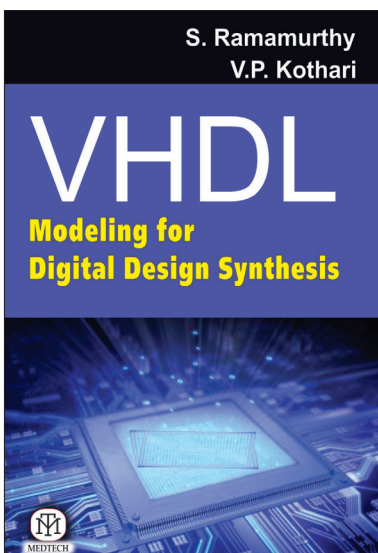
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- ◆ 8051 Instruction Set
- ◆ 8051 Interfacing with Peripherals
- ◆ Sample Project with 8051 and Introduction to PIC Microcontrollers
- ◆ Introduction to ARM Architecture
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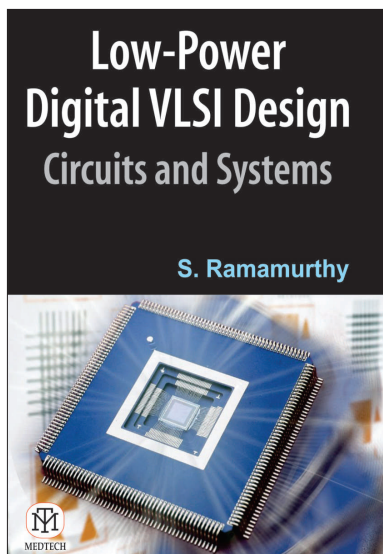
## VHDL—Modeling for Digital Design Synthesis

S Ramamurthy • VP Kothari

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- ◆ Basic Structures in VHDL
- ◆ Types, Operators and Expressions
- ◆ Sequential Statements
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- ◆ Subprograms and Packages
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- ◆ Modeling at the RT Level
- ◆ Modeling at the FSM Level
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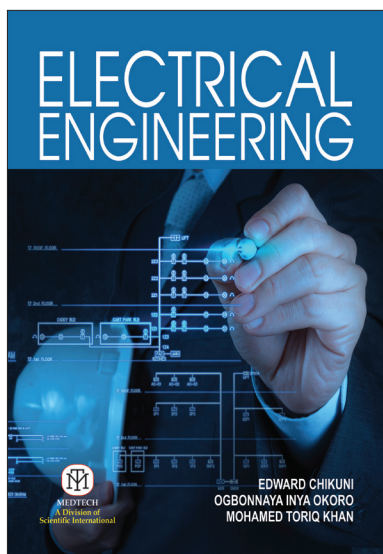
## Low-Power Digital VLSI Design Circuits and System

S Ramamurthy

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- ◆ Low-Voltage Process Technology
- ◆ Low-Voltage Device Modeling
- ◆ Low-Voltage Low-Power VLSI CMOS Circuit Design
- ◆ Low-Voltage VLSI BICMOS Circuit Design
- ◆ Low-Power CMOS Random Access Memory Circuits
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## Electrical Engineering

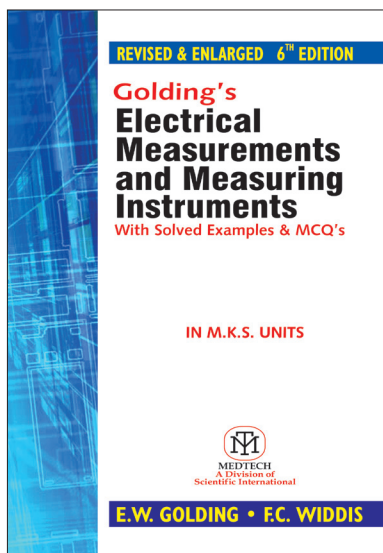
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- ◆ Electrical and Magnetic Circuit Fundamentals
- ◆ Complex and Alternating Current Circuits and DC Transients
- ◆ Computer Applications
- ◆ Polyphase Circuits ◆ DC Machines
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- ◆ The Per Unit System and Network Applications ◆ Modelling and Analysis of Power Systems
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- ◆ 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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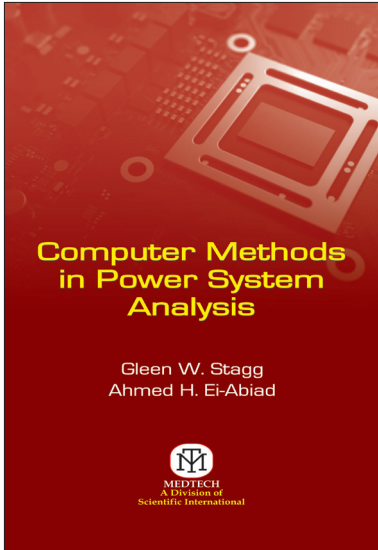
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- ◆ Electrostatic and Electromagnetic Theory
- ◆ Units, Dimensions, and Standards ◆ Circuit Analysis
- ◆ Capacitors, Capacitance, and Dielectrics ◆ Inductance
- ◆ Measurement of Inductance and Capacitance ◆ Measurement of Resistance
- ◆ Potentiometers ◆ Magnetic Measurements
- ◆ Illumination ◆ High-voltage Measurements and Testing
- ◆ Localization of Cable Faults ◆ Electrical Methods of Measuring Temperature
- ◆ Eddy Currents ◆ Wave-forms and their Determination
- ◆ Transient Phenomena ◆ Measuring Instruments
- ◆ Ammeters and Voltmeters ◆ Extension of Instrument Range
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- ♦ 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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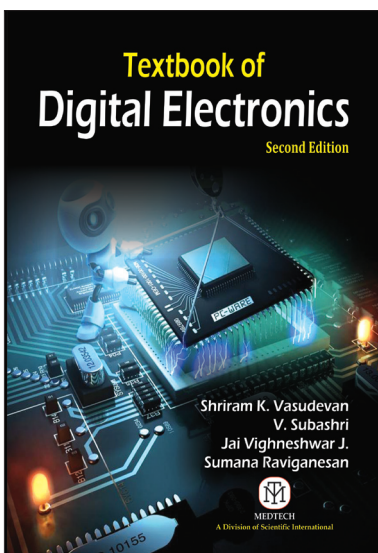
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- ♦ Variable Theory
- ♦ Concepts of Information Discrete Sources – Entropy
- ♦ Two Dimensional Schemes Discrete Channels
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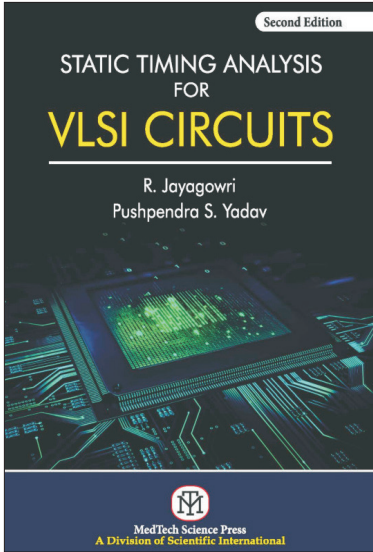
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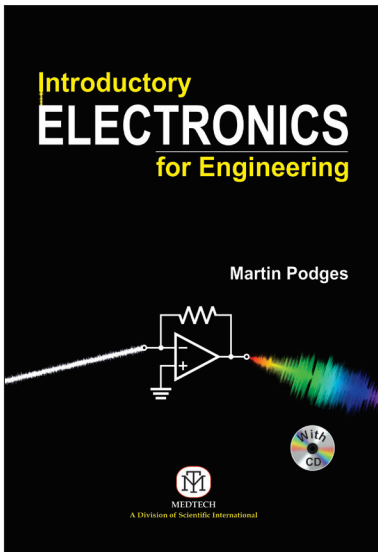
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- ◆ Timing Violations and Verification
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- ◆ Objective Type Questions

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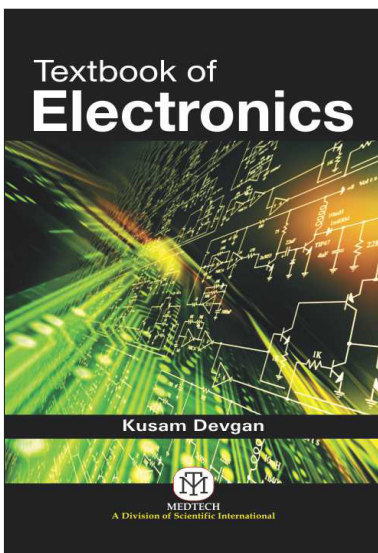
## Introductory Electronics for Engineering

Martin Podges

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- ◆ Instruments
- ◆ Semiconductor Theory
- ◆ Diode Theory
- ◆ Diode Characteristics
- ◆ Diode Applications
- ◆ Transistor Theory
- ◆ Transistor Characteristics
- ◆ Transistor Applications
- ◆ Field Effect Transistors

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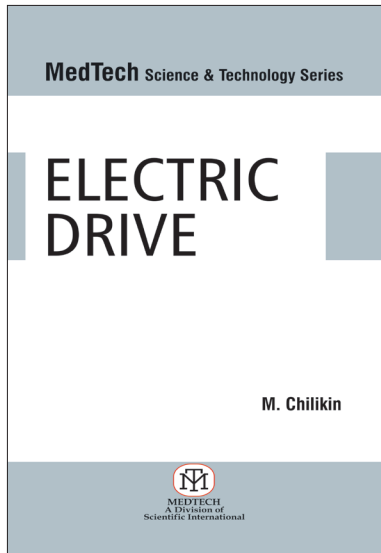
## Textbook of Electronics

Kusam Devgan

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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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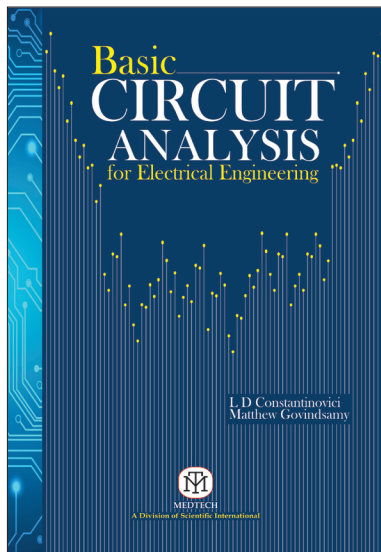
## Electric Drive

M Chilikin

### Contents

- Part I :** Electric Drive Fundamentals
- ◆ Basic Concepts Brief Historical Background
  - ◆ Speed-Torque Characteristics of Electric Drives
  - ◆ Speed Control of Electric Drives
  - ◆ Special Forms of Electric Drives
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- Part II :** Automatic Electric Drive Control
- ◆ Open-Loop Automatic Control Systems
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  - ◆ Typical Controls of Electric Drives
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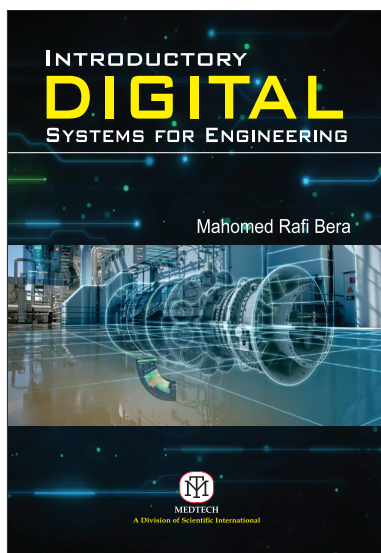
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- ◆ AC Theory (Part II)
- ◆ Resonant Circuits
- ◆ Networks Theory (Part I)
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- ◆ Harmonics
- ◆ Introduction to Three-Phase Systems
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- Unit III:** Working with Logic Functions
- Unit IV:** The NAND and NOR Logic Gates
- Unit V:** Simplification using Boolean Algebra
- Unit VI:** Simplification using Karnaugh Maps
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- Unit VIII:** Application of Combinational Logic
- Unit IX:** Sequential Logic Circuits
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- Appendix 2:** Sample Data Sheets
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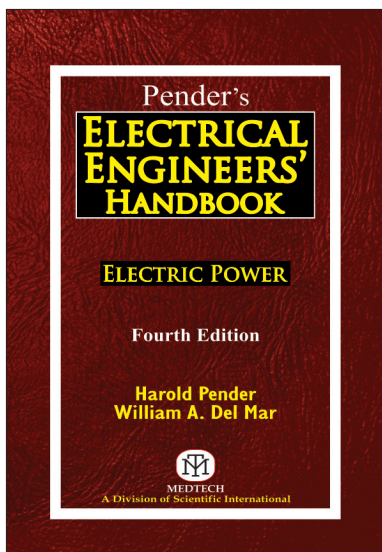
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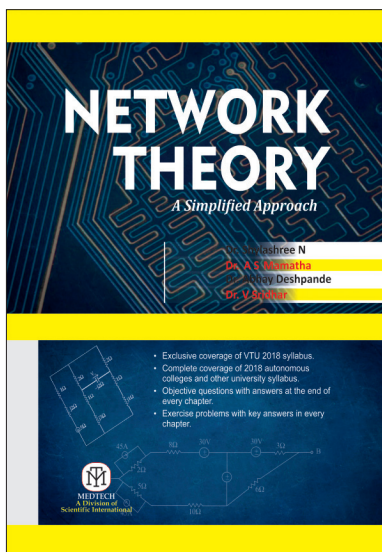
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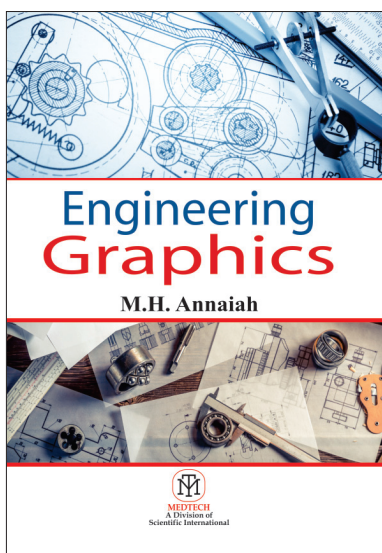
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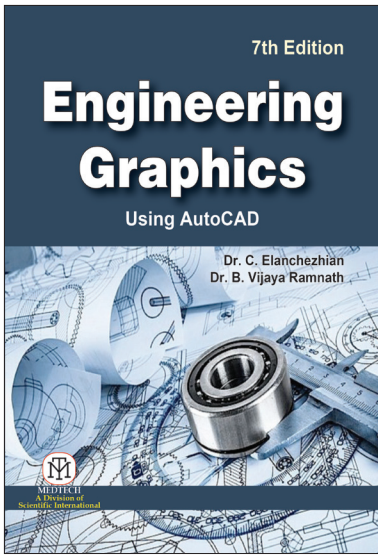
MH Annaiah

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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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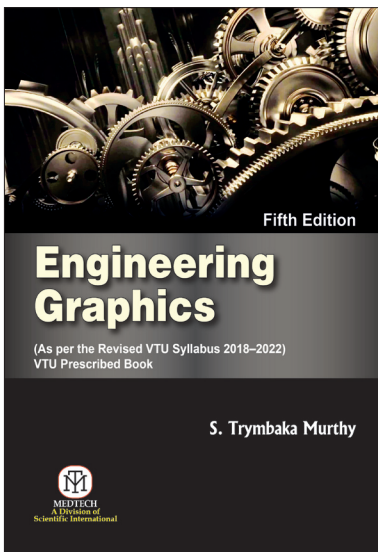
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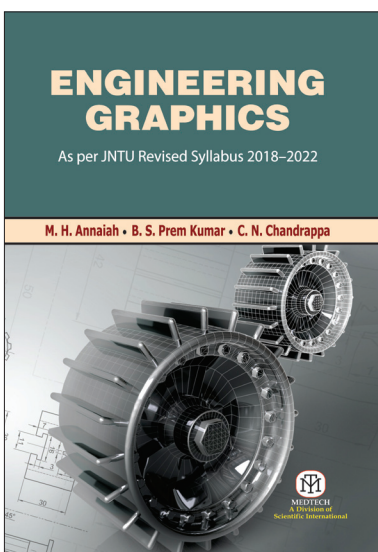
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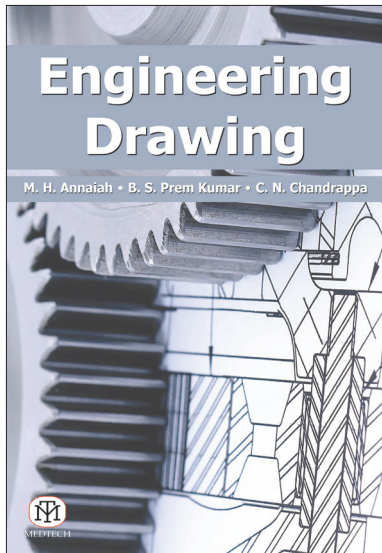
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- ◆ Instruments and their Uses
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- ◆ Isometric Projections

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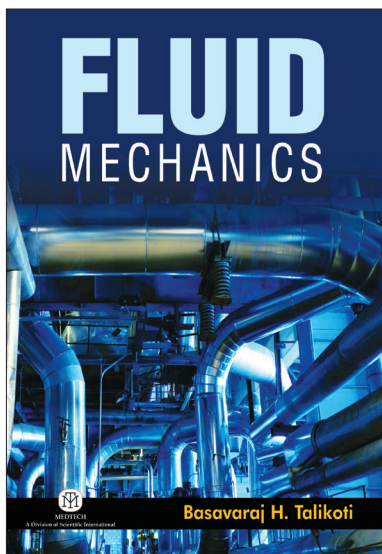
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- ◆ Laminar and Turbulent Flow
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- ◆ Important Theory Questions Chapterwise
- ◆ Previous Year's Question Paper Solved
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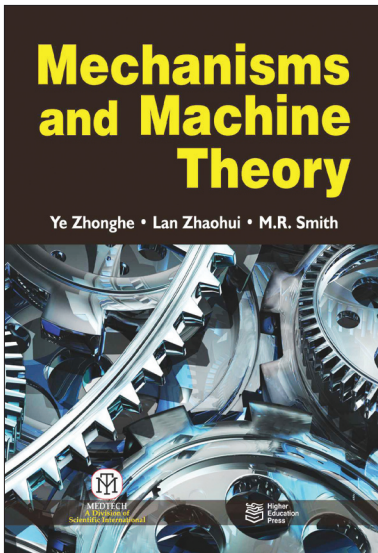
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- ◆ Introduction to Variational Principles
- ◆ Dynamics of Mechanical Systems
- ◆ Dynamical Properties of a Rigid Body
- ◆ Dynamics of Systems Containing Rigid Bodies
- ◆ Electrical Networks
- ◆ Electromechanical Transducers
- ◆ Dynamics of Continuous Systems
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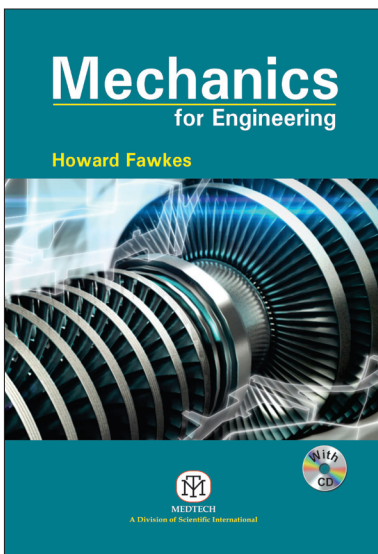
## Mechanisms and Machine Theory

Ye Zhonghe • Lan Zhaohui • MR Smith

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- ♦ Introduction
- ♦ Structural Analysis of Planar Mechanisms
- ♦ Kinematic Analysis of Mechanisms
- ♦ Planar Linkage Mechanisms
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- ♦ Gear Mechanisms
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- ♦ Other Mechanisms in Common Use
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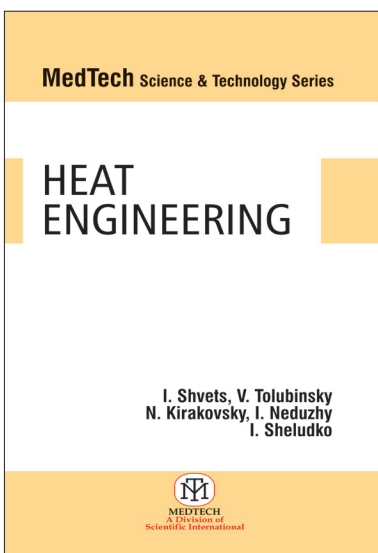
## Mechanics for Engineering

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- ♦ Measurement, Numbers and Units
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- ♦ Moments
- ♦ Centres of Gravity and Centroids
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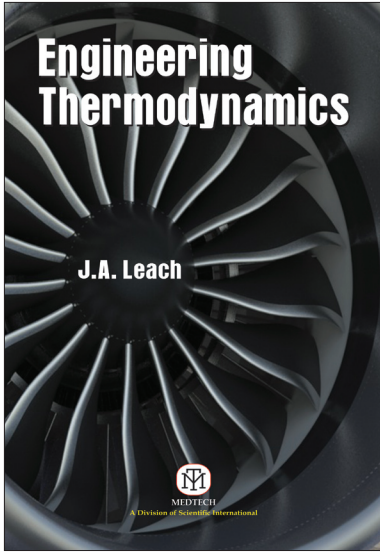
## Heat Engineering

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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
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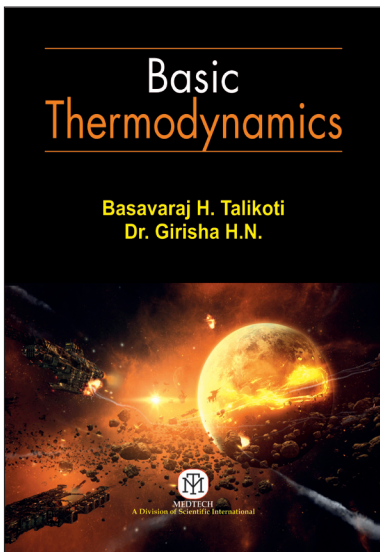
## Engineering Thermodynamics

JA Leach

### Contents

- ◆ Thermodynamics
- ◆ Flow Processes and Reversibility
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- ◆ Steam
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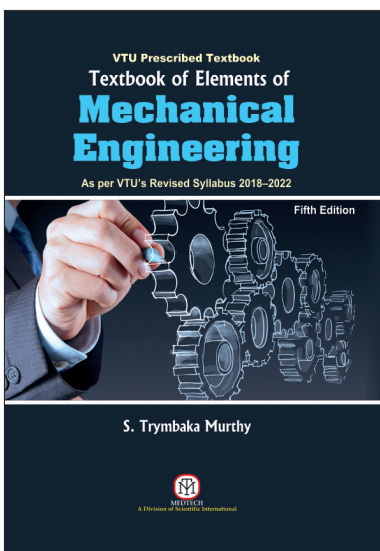
#### Module 4

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- ◆ Pure Substance

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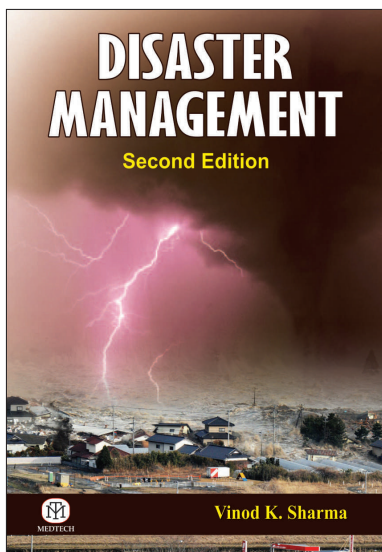
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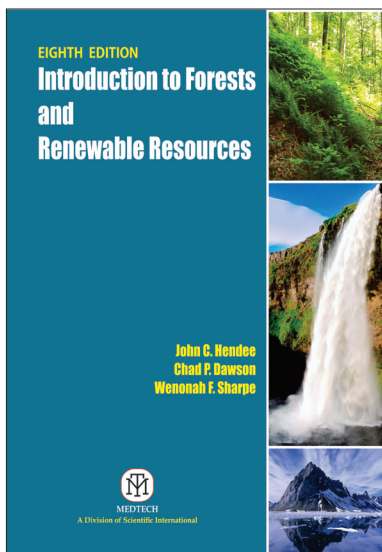
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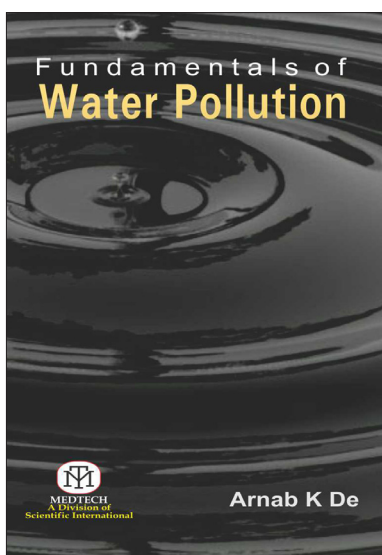
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- ◆ Water Quality Parameters and Standards
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- ◆ Sampling of Water and Waste Water for Analysis
- ◆ Methodology of Water and Waste Water Analysis
- ◆ Principles of Analytical, Instrumental Methods used in Water Analysis
- ◆ Wask Water Treatment

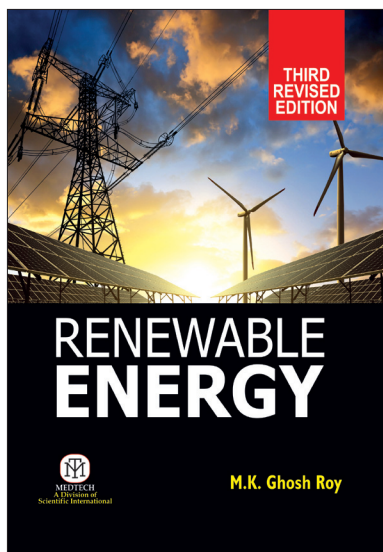
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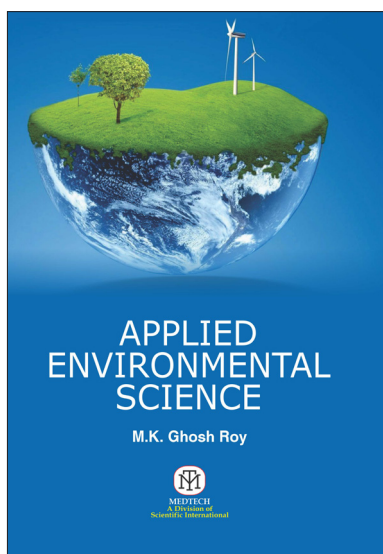
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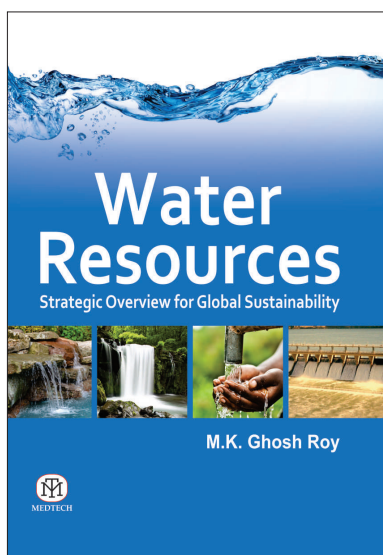
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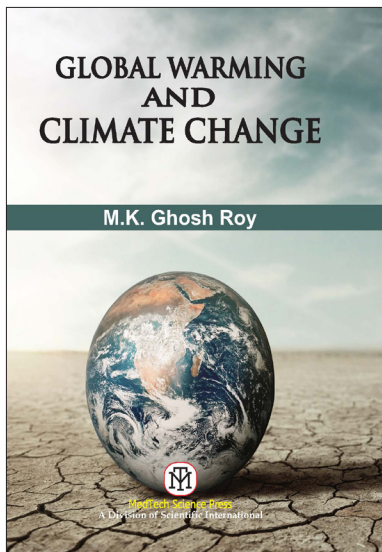
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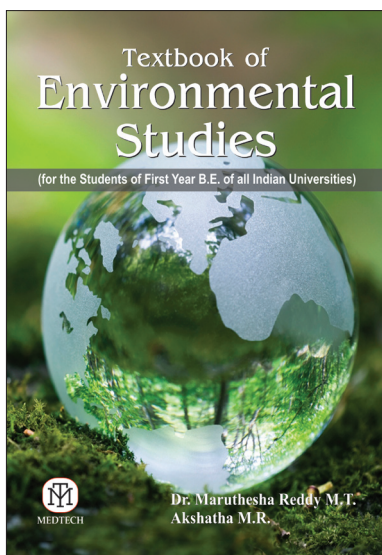
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Maruthesha Reddy MT • Akshatha MR

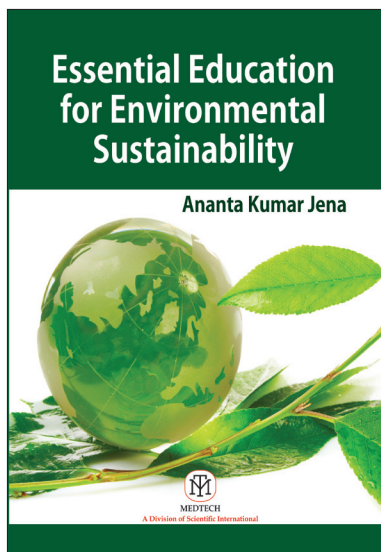
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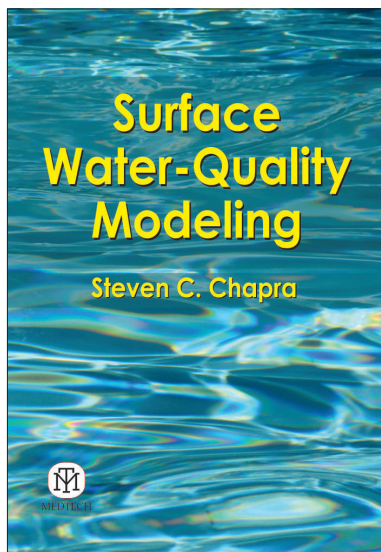
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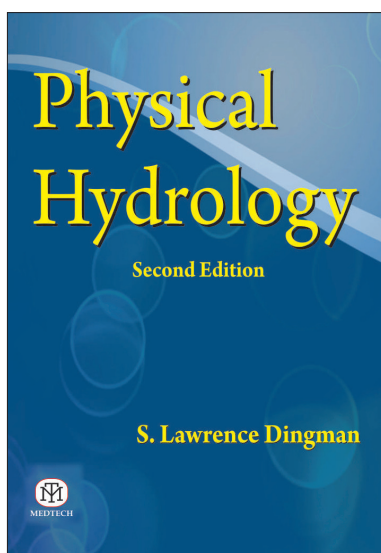
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Steven C Chapra

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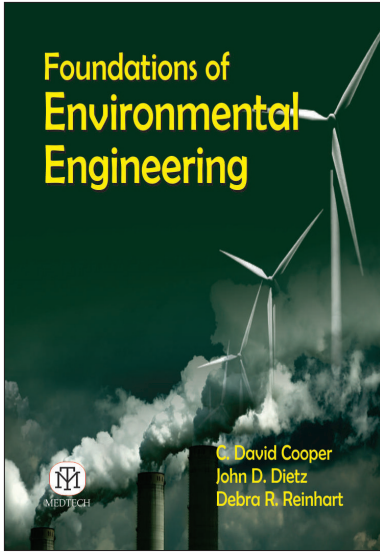
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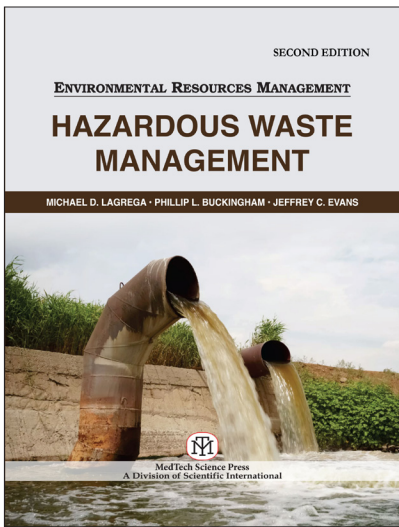
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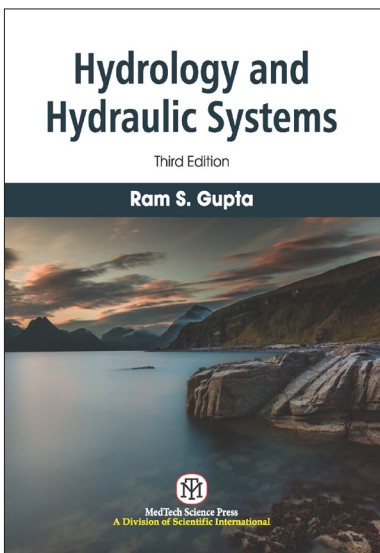
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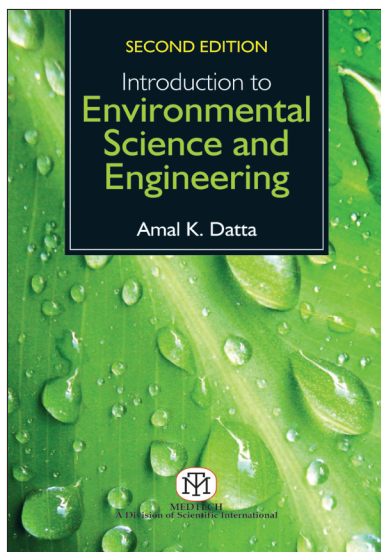
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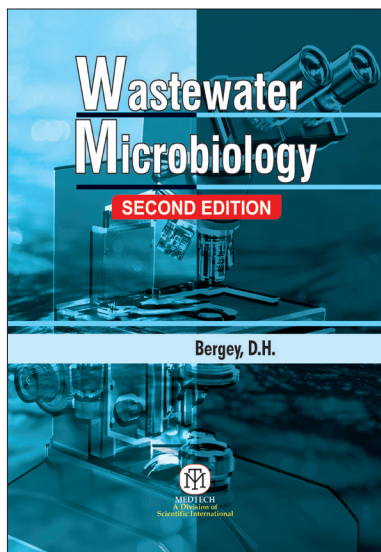
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## Wastewater Microbiology

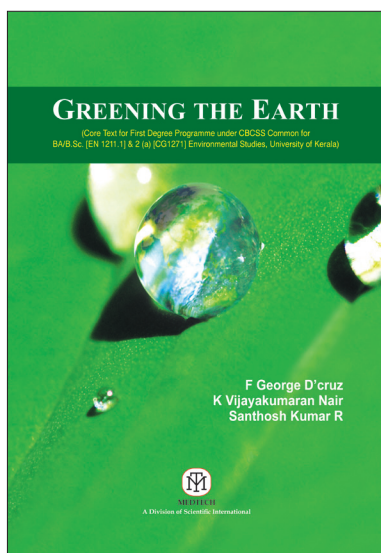
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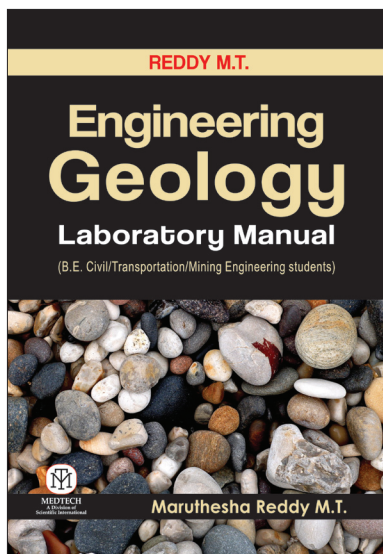
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## Geology, Mineralogy & Soil Science



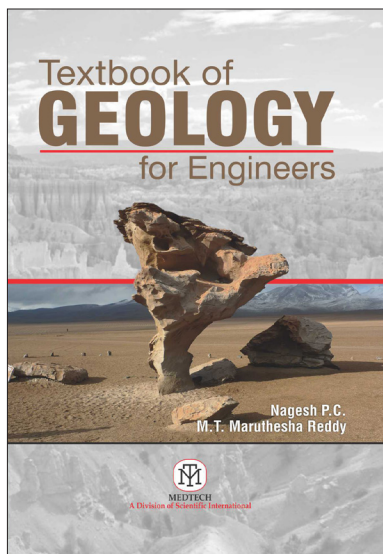
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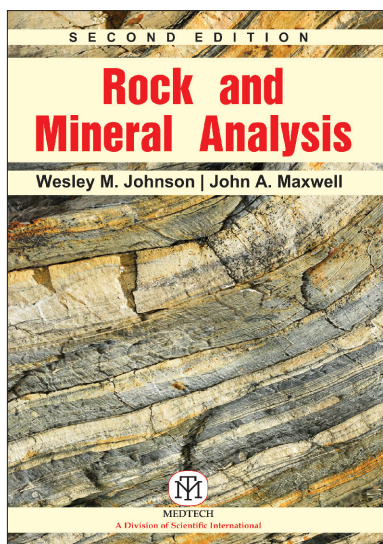
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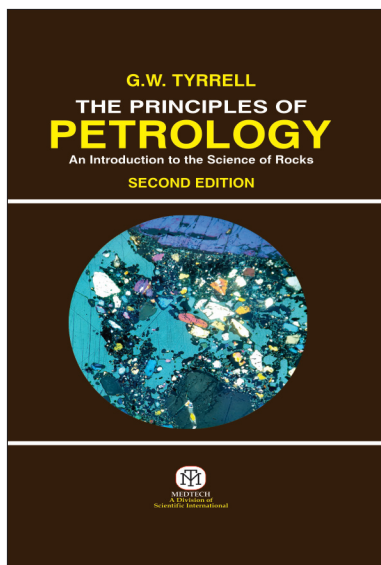
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- ♦ The Determination of Major and Minor Constituents in Rocks and Minerals by Atomic Absorption Spectroscopy
- ♦ The Determination of Trace Constituents in Rocks and Minerals by Atomic Absorption Spectroscopy
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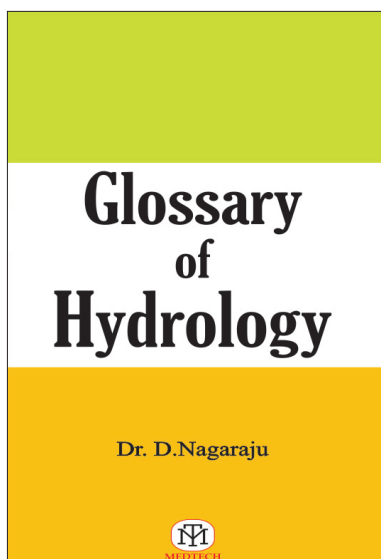
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  - ◆ Composition and Constitution of Magmas
  - ◆ Textures and Microstructures
  - ◆ The Distribution of Igneous Rocks in Space and Time
- Part II** The Secondary Rocks
- ◆ The Residual Deposits
  - ◆ Sedimentary Rocks: Mineralogical, Textural, and Structural Charaters
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## Glossary of Hydrology

Prof D Nagaraju

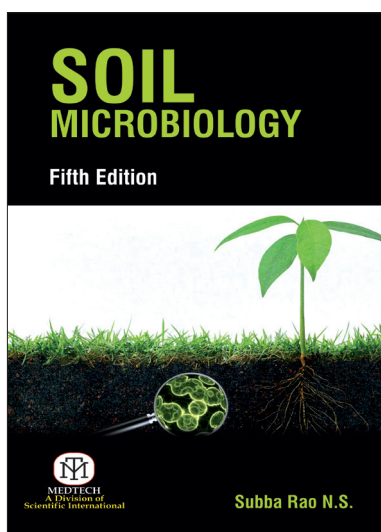
The dictionary covers a wide range of words and technical terms frequently used in the field of hydrogeology Geohydrology, which deals with the analytical methods of fluid dynamics in the geological and related laboratory context, groundwater exploration through geophysical methods, aquifer development 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

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## Soil Microbiology

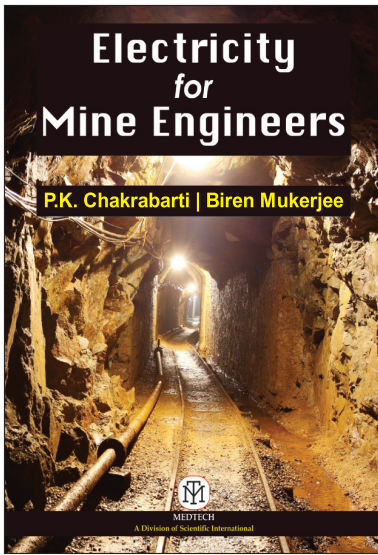
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- ◆ Nitrogen Fixation by Symbiotic Blue-Green Algae
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- ◆ Actinorhizal Plants (Frankia-Induced Nodulation)
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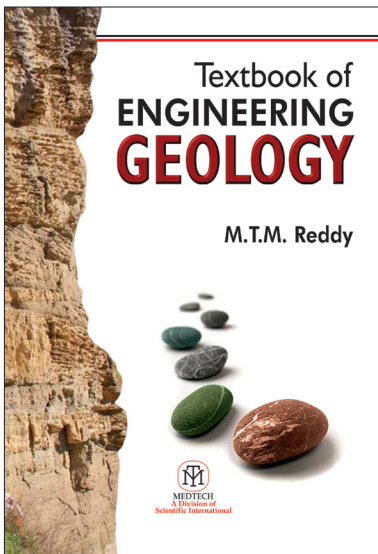
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PK Chakrabarti • Biren Mukerjee

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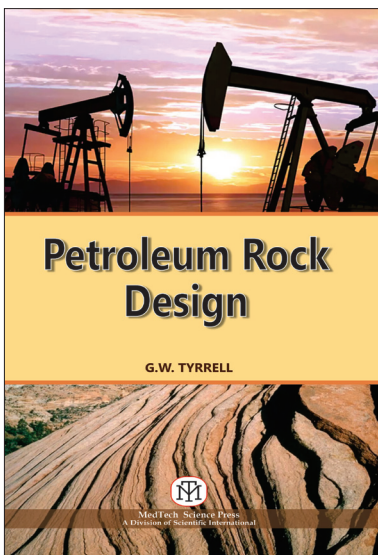
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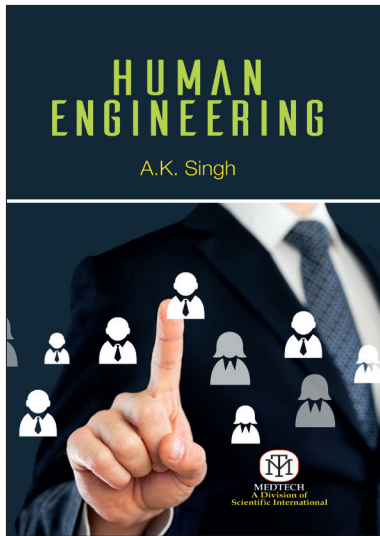
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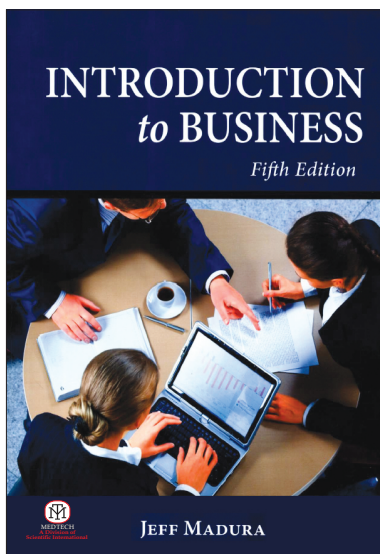
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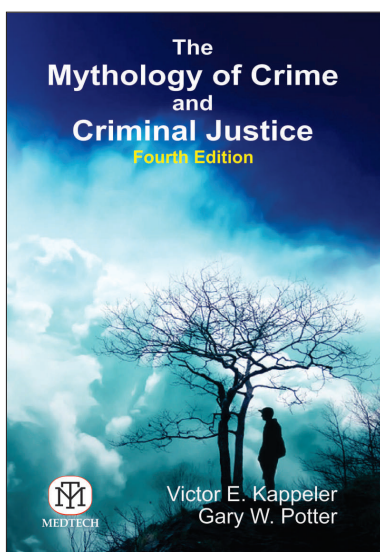
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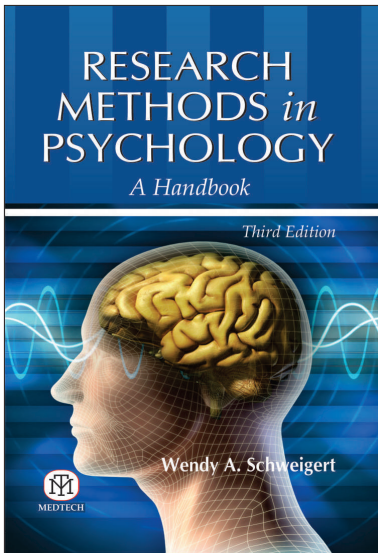
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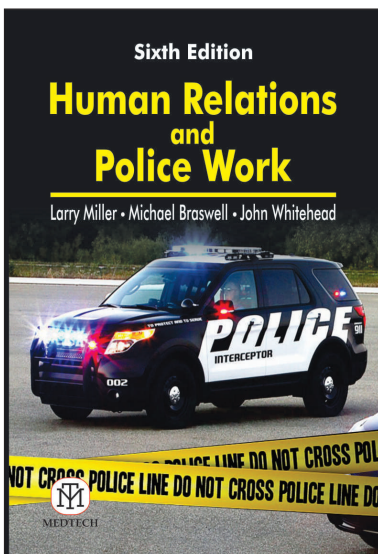
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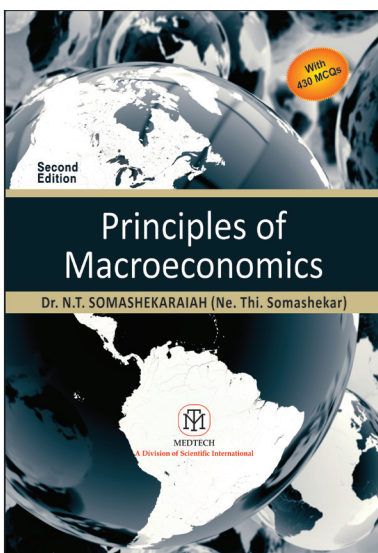
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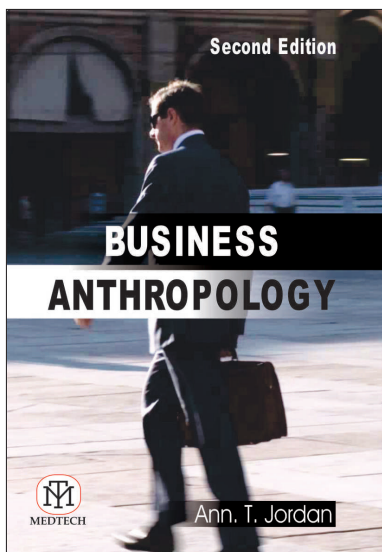
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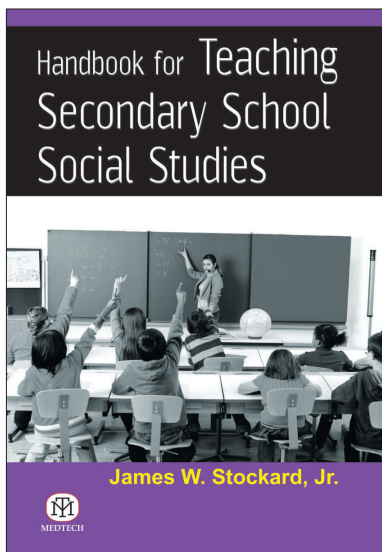
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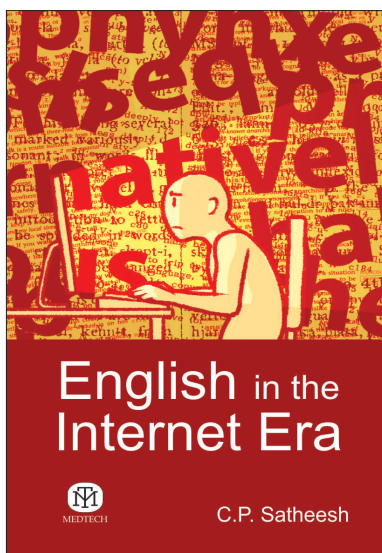
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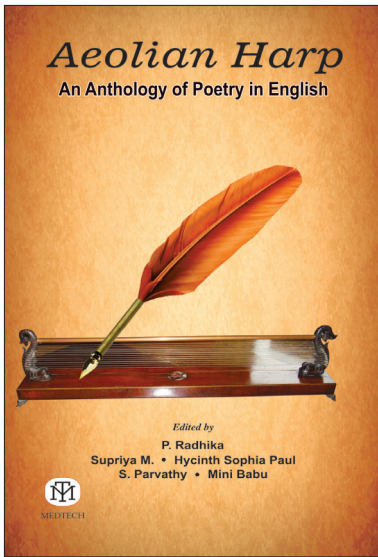
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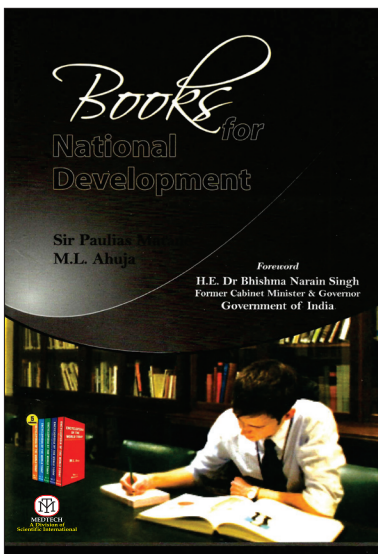
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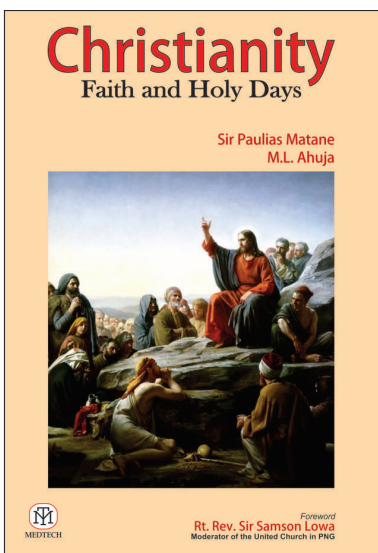
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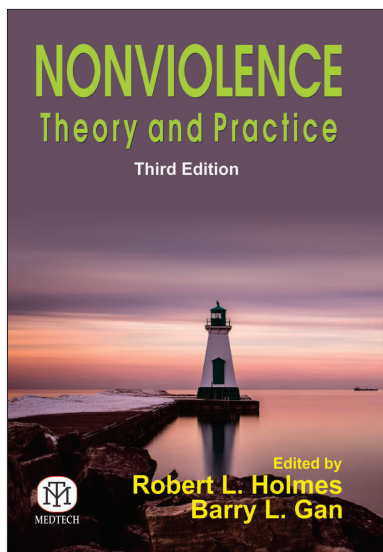
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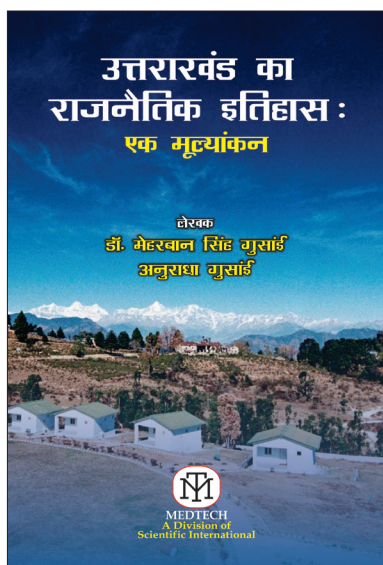
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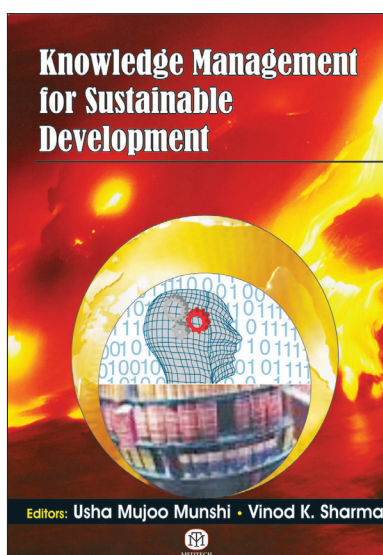
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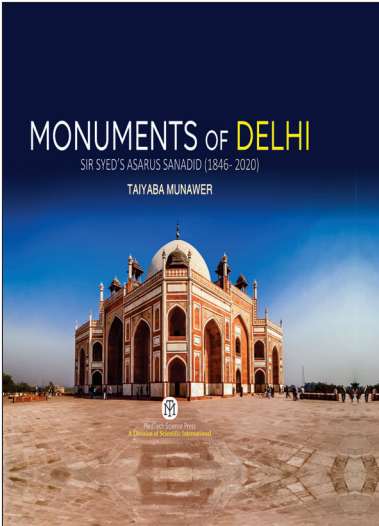
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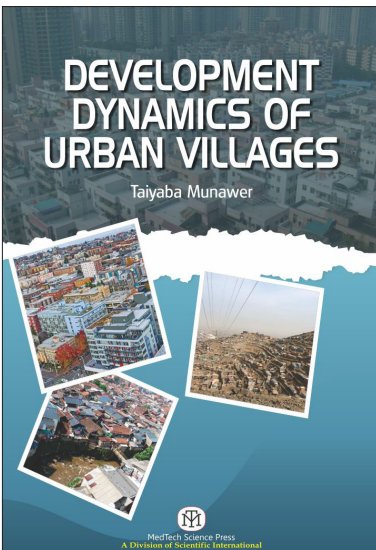
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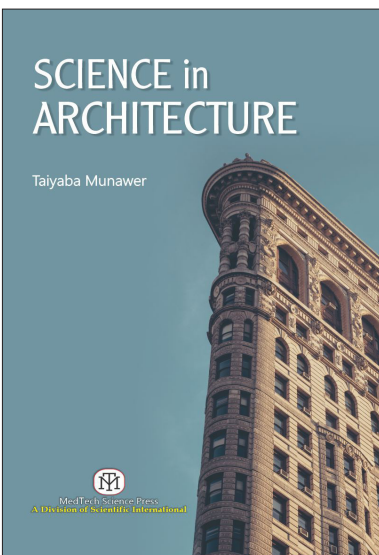
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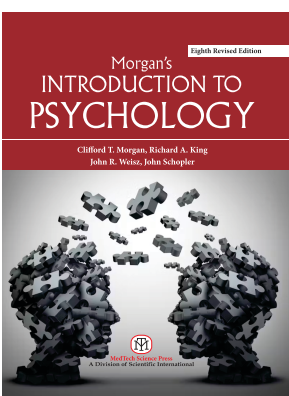
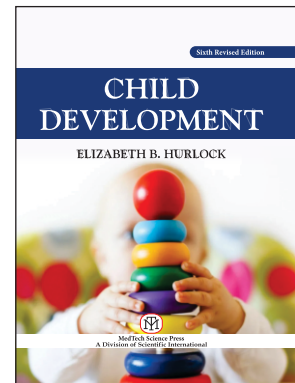
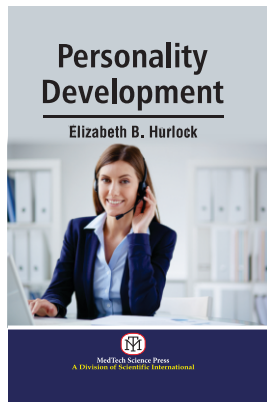
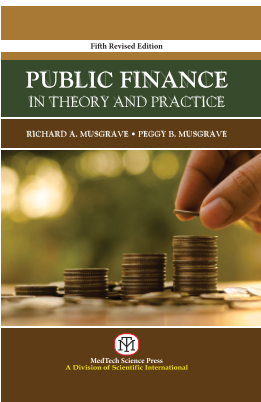
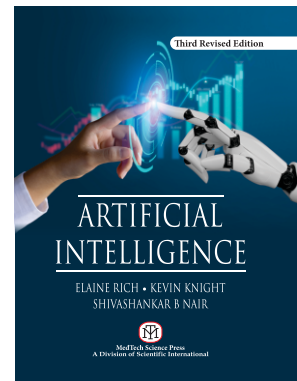
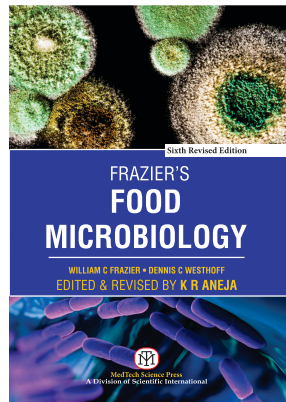
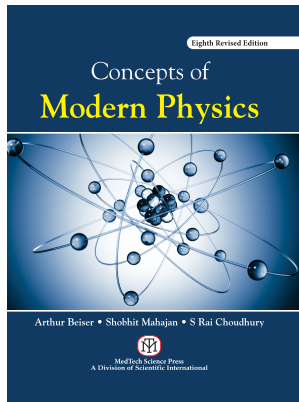
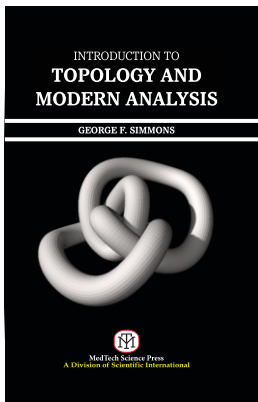


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