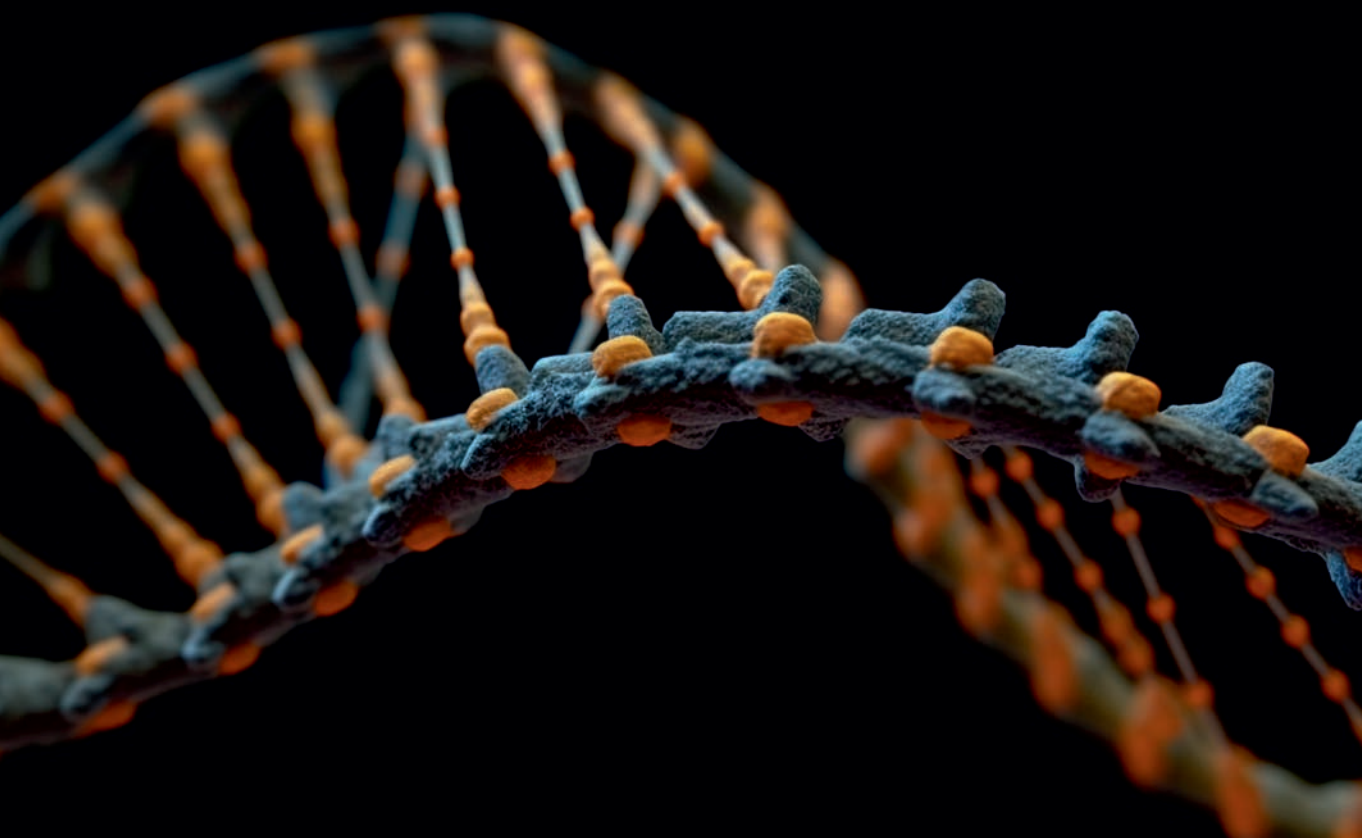


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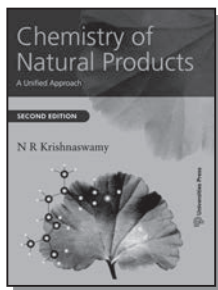
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**N R Krishnaswamy**

Formerly Professor, Department of Chemistry,  
All India Institute of Medical Sciences, New Delhi;  
Sri Sathya Sai Institute of Higher Learning,  
Puttaparthi, India.



*Chemistry of Natural Products, A Unified Approach*, provides a planned account of the common features, structural and stereochemical, of naturally occurring organic compounds. This is the only approach to bring about effective understanding of their chemistry. A variety of examples have been given to illustrate varied aspects so that the range of structure and behaviour exhibited by these compounds is retained within the set framework. The increasing application of physical (spectroscopic) methods like IR, NMR, CD, ORD, MS, High Resolution Mass Spectroscopy—using which, structural determinations are often done with very small or even microscopic quantities of the substance—is emphasised, without undermining the importance of 'classical' chemical methods. The section on problem solving helps to develop an analytical and critical evaluation of the data.

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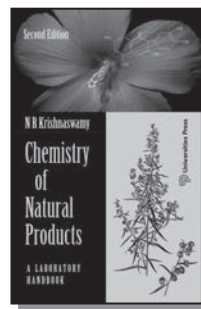
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**N R Krishnaswamy**

Formerly Professor, Department of Chemistry,  
All India Institute of Medical Sciences, New Delhi;  
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Puttaparthi, India.



This book is a laboratory companion to the author's book, *Chemistry of Natural Products: A Unified Approach*, Second Edition. The main objective is to provide students with experimental details for the successful isolation of different types of natural products.

The handbook has been extensively revised and updated. Apart from including additional examples under isolation, chemical transformation and synthesis, two new chapters have been added to enlarge the scope of the book and make it useful to students of organic chemistry and biochemistry. They are:

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- Suggested Projects

Notes on how to collect and identify plant materials, and the preparation of diagnostic

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The chemistry of natural products is a hybrid science combining the theory of organic chemistry with experimentation. This book contains a judicious combination of both spectroscopic and chemical methods. All the experiments have been successfully class tested.

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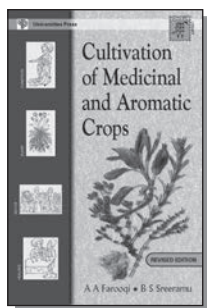
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In recent years, there has been a tremendous growth of interest in plant-based drugs, pharmaceuticals, perfumery products, cosmetics and aromatic compounds used in food flavours, fragrances, and natural colours. An attempt has been made in this book to provide all possible pooled information including the research findings that have been generated by the Division of Horticultural Sciences, the University of Agricultural Sciences, the Indian Institute of Horticultural Research, the Central Institute of Medicinal and Aromatic Crops, the National Botanical Research Institute,

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2004

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S S Agrawal

Formerly Professor and Head, Department of Pharmacology; Principal, Delhi Institute of Pharmaceutical Sciences and Research, New Delhi, India.

M Paridhavi

Principal, Rajiv Gandhi Institute of Pharmacy, Kasargod, India.



The second edition of the textbook *Herbal Drug Technology*, based on the curriculum of various universities, caters to both bachelor's and master's courses in pharmacy and allied sciences. It contains detailed information on Indian systems of medicine, herbal therapeutics, crude drugs and medicinal botany.

New to this edition are topics such as herbal cosmetics, nutraceuticals, chemotaxonomy, recent changes in in vivo anti-cancer screening models and screening of cardiac glycosides, and methods of literature search and patenting of herbal drugs.

**Special features:** Designed according to the curriculum of undergraduate and postgraduate courses in pharmacy of various universities in India and abroad ♦ Incorporates recent advances in technology ♦ Provides a comparative study of dosage forms in ayurveda and modern medicine ♦ Includes a detailed analysis of more than 60 phytopharmaceuticals ♦ Discusses standardization of herbal drugs—WHO protocol, different methods used for standardization, quality control standards for herbal extracts and validation of herbal products

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## Indian Medicinal Plants: A Compendium of 500 Species

**P K Warriar**

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**V P K Nambiar**

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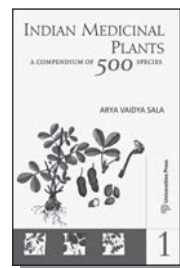
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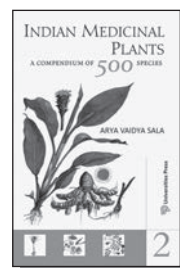
This compendium which is based on a treatise prepared by S Raghunatha Iyer, a scholar of both Sanskrit and Ayurveda, aims to make an authoritative contribution to the field. The original work which drew upon classical texts and current research, as well as the oral medical knowledge of tribal groups has been updated by scholars associated with the Arya Vaidya Sala in Kottakal, India. This unique compendium offers profiles of 500 key species with detailed taxonomic information. One of the leading features of this compilation is the special technique used in the

illustrations, both colour and line, which aims to achieve authenticity of texture, colour and form.

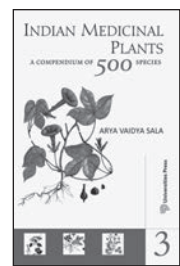
The compendium also lists the distribution and popular nomenclature in English, Sanskrit, Hindi, Malayalam and Tamil. The main texts present properties and uses in a format which cites ancient verse texts and ethnobotanical sources. This rare work, in five volumes, should be of special interest to practitioners of alternative medicine, students of Ayurveda, the research and industry associated with medical botany, pharmacologists, sociologists and medical herbalists.



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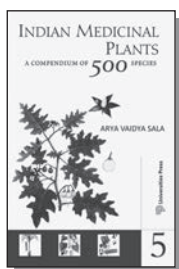
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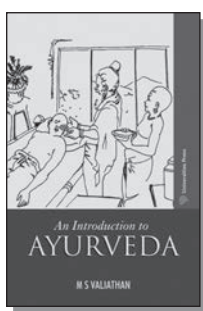
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## Introduction to Ayurveda, An

**M S Valiathan**

National Research Professor, Manipal University,  
Manipal, India.



This book is an introduction to Ayurveda, the ancient system of medicine that had been practiced in the Indian subcontinent for several centuries. It seeks to acquaint the reader, without too many technical details, with the evolution of Ayurveda from its religious moorings to one based on reason and examination. It also discusses the strong influences of Buddhist thought on

the development of Ayurvedic practices. The instruments and techniques used as well as the training methods for aspiring practitioners are discussed.

**Contents:** Evolution of Healing ♦ Medicine in Buddhist India ♦ Basic Concepts of Ayurveda ♦ Healthy Living (Swasthavrittha) ♦ Food and Drinks ♦ Diseases ♦ Materia Medica ♦ Training in Medicine & Surgery ♦ Surgical Procedures ♦ Rejuvenation & Enhancement of Sexual Potency ♦ An Ayurvedic View of Life ♦ New Sprouts on an Age-old Tree ♦ *Appendix*

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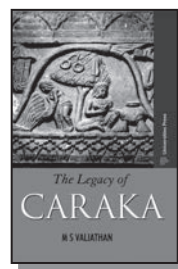
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## Legacy of Caraka, The

**M S Valiathan**

National Research Professor, Manipal University,  
Manipal, India.



Caraka, the master physician, is believed to have lived in the first century AD. The *Samhita* composed by him forms the bedrock of ayurvedic practice today. His contribution to India's cultural inheritance was profound.

Caraka's *Samhita* was, in fact, a revision of an older text, *Agnivesa Tantra*, which was written several centuries before Caraka's time. Caraka's revision became so popular that it was translated into Tibetan, Arabic, English and many Indian languages. The *Legacy of Caraka* retells the *Samhita* in a new format. Instead of adhering to the sequence of the *Sthanas* in the original, the author has retold the *Samhita* through thematically-structured chapters, in contemporary idiom. The retelling has involved some degree of restructuring and condensation but has ensured that whatever is stated can be traced back to the original. In a detailed introduction, the author has commented on specific aspects of Caraka's

philosophy, concepts and practice, as seen from the point of view of modern medicine.

This book will be of special interest to students of Ayurveda, medicine and other sciences, and those interested in the history of science in India.

**Contents:** Introduction ♦ Caraka and his legacy ♦ Atharva Veda to Caraka ♦ Diseases in Caraka's period ♦ Doctrines and concepts ♦ Five evacuative procedures (pancakarma) ♦ Procedures for rejuvenation and enhanced virility (rasayana and vajikarana) ♦ Medicinal plants ♦ Food and Drinks ♦ Habitat ♦ Learning to be a physician ♦ **Section 1: Ayurveda** ♦ Drugs formulations in therapeutics ♦ Sense perception and well-being ♦ Life in accord with the seasons ♦ Suppression of natural urges; comments on physical miscellany ♦ The medical quartet ♦ Three desires, means of knowledge and some triads ♦ Lubricants in therapeutics ♦ Fomentation ♦ Evacuative therapy ♦ Imbalance of dosas - varied expressions ♦ Slimming and building up in therapeutics ♦ Obesity and leanness; stray remarks on sleep ♦ Blood ♦ Food as the source of man and his diseases ♦ Rasas ♦ Food and drink ♦ The fate of food and drinks in the body ♦ Physicians - genuine and fraudulent ♦ Rasas, dosas and a healthful diet ♦ Epidemics; reflections on lifespan ♦ Norms for the quantity of meals ♦ Body - a network of channels ♦ Disease - manifold expressions of deranged dosas ♦ Infestation by worms (krmi) ♦ Training of a physician - theory, practice and ethics ♦ The body and its knower ♦ Conception ♦ Genesis of the embryo ♦ Pregnancy - fetal development, Anomalies and personality types ♦ Antenatal and postnatal management and care of the baby ♦ The individual and the cosmos ♦ A count of body parts ♦ The spectre of death ♦ **Section 2: Rejuvenant therapy (rasayana)** ♦ Virile therapy (vajikarana) ♦ Fevers (jvara) ♦ Pitta-induced bleeding disorders (rakta pitta) ♦ Gaseous and hemorrhagic lumps of the abdomen (gulma) ♦ Skin disorders including leprosy (kustha) ♦ Phthisis (sosa) ♦ Insanity (unmada) ♦ Epilepsy (apasmara) ♦ Chest injuries and their sequelae (ksata ksina) ♦ Swelling (svayathu) ♦ Abdominal disease with distension (udara) ♦ Piles (aria) ♦ Digestion and digestive disorders (grahani) ♦ Disorders of pallor (panduroga) ♦ Hiccup; shortness of breath (hikka svasa) ♦ Cough (kasa) ♦ Diarrhea (atisara) ♦ Vomiting (chhardi) ♦ Cellulitis (visarpa) ♦ Thirst (trsna) ♦ Alcoholic disorders (madatyaya) ♦ Sores and injuries (vratta) ♦ Three regional disorders (basti, hfdaya and siras) ♦ Numb and immobile thighs (Urustambha) ♦ Disorders of perturbed vata (vatavyadhi) ♦ Disorders of perturbed vata and blood

(vatasonita) ♦ Disorders of the reproductive system—reflections on the principles of therapeutics ♦ Drugs for evacuation (emetics and purgatives) ♦ Evacuative procedures (pancakarma) and formulations ♦ *Epilogue* ♦ *Botanical names* ♦ *Glossary* ♦ *Index*

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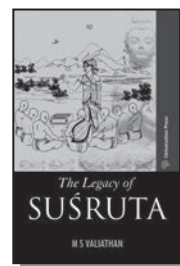
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## Legacy of Susruta, The

M S Valiathan

National Research Professor, Manipal University,  
Manipal, India.



Susruta's name is synonymous with India's surgical inheritance. A legendary figure, he is believed to have lived and taught in Varanasi several centuries before the Buddha, and composed the *Susruta Tantra* which became a timeless medical classic. Though the original text was lost long ago, a redaction by Nagarjuna survived as *Susruta Samhita* and won universal acclaim. The *Samhita* is a study of the human condition in health and disease with undisguised emphasis on surgery, and rivals Caraka's classic in authority. In *The Legacy of Susruta*, the text of *Susruta Samhita* has been recast in a thematic fashion without sacrificing any of the content of the original chapters. Furthermore, it presents much of the data in tabular form, and features many tables and illustrations in an effort to reach out to readers who may include not only students of ayurveda but also of modern medicine, biological and social sciences and the history of science.

The present volume is a companion to the commercially successful *The Legacy of Caraka*.

**Contents:** Section I: At thy feet, Divodasa, Dhanvantari ♦ Section II: Initiation and training

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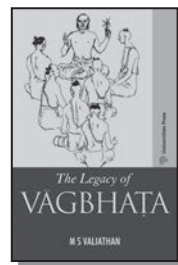
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## Legacy of Vagbhata, The

M S Valiathan

National Research Professor, Manipal University,  
Manipal, India.



Vagbhata completes the "Great Three" (Brhatrayi) of Ayurveda, with his predecessors, Caraka and Susruta. His identity and period are controversial but a major section of the scholarly community believes that he was a native of Sindh, who lived in the sixth century and wrote *Astangahrdayam* and *Astangasnagraha*. The two texts frankly acknowledge the authority of the *Samhitas* of Caraka and Susruta and closely follow in the footsteps of the earlier masters. *The Legacy of*

*Vagbhata* is based on a study of *Astangahrdayam* and employs a thematic approach with the plentiful use of tables. As in the earlier volumes on Caraka and Susruta, great care has been taken in this volume on Vagbhata to maintain fidelity to the original text while ensuring easy readability for the students of Ayurveda, medicine and the sciences.,

**Contents:** **Section I: Ayurveda - An overview** ♦ **Section II: Healthy Living (Svastavrtta)** ♦ A code for healthy conduct (svastavrtta) ♦ Life in harmony with seasons (rtucarya) ♦ **Section III: Drinks and Food (Dravadravya)** ♦ Liquids as food (dravadravya) ♦ Food (annasvarupa) ♦ Food safety (annaraksa) ♦ Measure of food for health (matrasitiya) ♦ **Section IV: Human Body (Sarira)** ♦ Pancabhutas as the stuff of existence (Dravyavijnana) ♦ Tastes (rasas) ♦ Dosas, tissues (dhatus), wastes (malas) ♦ Dosas (dosabhediya) ♦ **Section V: Development, Structure and Functions of the Body** ♦ Sarira ♦ Procreation, pregnancy and fetal development (garbhotpatti, garbhavakrantiya) ♦ Disorders of pregnancy (garbhavyapat) ♦ Body parts and functions (angavibhaga) ♦ Vital spots (marmas) ♦ **Section VI: Outline of Medical Measures (Cikitsa)** ♦ Management of perturbed dosas (dosopakrama) ♦ Increasing (brmhana, santarpana) and reducing (langhana, apatarpana) the body mass ♦ Groups of drugs for evacuative and other measures (sodhanadi group) ♦ Herbal drugs (bhesajakalpa) ♦ Lubricant therapy (snehana) ♦ Fomentation (svedana) ♦ Emesis and purgation (vamana, virecana) ♦ Emetics and purgatives; medicinal formulations; Complications (vamanakalpa, virecanakalpa) ♦ Enemas (vasti) ♦ More on enemas (vastikalpa) ♦ Nasal purging (nasya) ♦ Other procedures: smoking (dhumapana), gargling (kabala) ♦ Procedures for eye care (ascyotana, anjana) ♦ **Section VII: Outline of Surgical Measures (Salya)** ♦ Blunt instruments (yantras) ♦ Sharp instruments (sastras) ♦ Venesection (siravyadha) ♦ Removal of foreign bodies (salyaharana) ♦ Surgical operations (sastrakarma) ♦ Cauterisation (ksaragnikarma) ♦ **Section VIII: Systemic Diseases** ♦ Causation and clinical course of diseases ♦ Fevers (jvara) ♦ Pitta-induced bleeding disease (raktapitta) ♦ Cough (kasa) ♦ Shortness of breath; hiccup (svasa; hikka) ♦ Phthisis and allied conditions (sosa) ♦ Alcoholic intoxication

(madatyaya) ♦ Diarrhea (atisara) ♦ Bowel disorder (grahani) ♦ Polyurias (prameha) ♦ Abscess (vidradhi) ♦ Disease of pallor (panduroga) ♦ Vata disorders (vatavyadhi) ♦ Vata-induced blood disorders, gout-like disorders (vatasonita, vatarakta) ♦ Swelling (sopha) ♦ Cellulitis (visarpa) ♦ Disease caused by suppression of physical urges (Vega) ♦ **Section IX: Health and Disease of Children (Kaumarabhraya)** ♦ Care of the newborn (balopacaraniya) ♦ Diseases of children (balamayas) ♦ Diseases in children caused by evil spirits (balagrahas) ♦ **Section X: Superhuman power in humans (bhutavijnaniya)** ♦ **Section XI: Insanity (unmada)** ♦ **Section XII: Seizure disorder (apasmara)** ♦ **Section XIII: Poisoning (Visa)** ♦ Poisons: fixed and mobile (visa: sthava and jangama) ♦ Snake bites (sarpavisa) ♦ Bites by insects - spiders (Kitalutadi Visa) ♦ Poisoning by bites of rats, dogs (musika-alarkavisa) ♦ **Section XIV: Regional Disorders** ♦ Piles (arsas) ♦ Urinary obstruction (mutrakrcchra) ♦ Scrotal swelling (vrddhi) ♦ Gaseous lumps of the abdomen (guma) ♦ Abdominal swelling (udara) ♦ Leprosy (kustha) ♦ Leucoderma (svitra) ♦ Worm infestation (krmi) ♦ Ulcers (vrana) ♦ Fractures and dislocations (bhanga, sandhimukta) ♦ Rectal fistula (bhagandara) ♦ Glandular swellings, tumours, filarial ♦ Diseases of the genital organs (guhayaroga) ♦ Minor diseases (ksudraroga) ♦ **Section XV: Diseases of Head and Neck (Salakya)** ♦ Diseases of the ear (karnaroga) ♦ Diseases of the nose (nasaroga) ♦ Oral diseases (mukharoga) ♦ Diseases of the head (sioroga) ♦ **Section XVI: Disease of the Eye (Netraroga)** ♦ Diseases of eyelids (vartma) ♦ Diseases of the fornix, sclera and cornea (sandhi-sita-asitaroga) ♦ Vision defects (drsti) ♦ Blindness due to the disorders of lens (linganasa) ♦ Global diseases of the eye (sarvaksiroga) ♦ **Section XVII: Fatal Signs (Ritas)** ♦ Signs of imminent death (rista) ♦ Messengers, omens, dreams (duta, nimitta, svapna) ♦ **Section XVIII: Rejuvenant therapy (rasayana)** ♦ **Section XIX: Virilising therapy (Vajikarana)** ♦ *Section XX: Epilogue ♦ Index*

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2009

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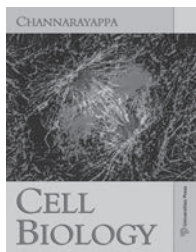
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## BIOCHEMISTRY

## Cell Biology

Channarayappa

Professor and Head, M S Ramaiah Institute of Technology, Bengaluru, India.



*Cell Biology* covers one of the most fundamental and elaborately studied areas of biology: the cell. The cell is undoubtedly the basic unit of life and has all the structural and functional properties required for life. It has been experimentally demonstrated that any genetic modification desired in an organism has to be made at the cellular level only. Therefore, understanding the cell in the context of structure and function is essential and inevitable.

The book has been divided into 20 chapters—beginning with the origin of biological systems and ending with tools for the study of cells. Every effort has been made to include the most recent information. Each chapter is provided with an adequate number of illustrations.

**Contents:** Origin of Biological Systems ♦ Atomic Basis of Life ♦ Biomolecules ♦ Prokaryotic Cells ♦ Eukaryotic Cells ♦ Biological Membranes ♦ Mitochondria: Powerhouse of the Cell ♦ Plastids: Food Factory of the Cell ♦ Cell Division: Propagation of Genetic Information ♦ Cell Signalling ♦ Sensory Signalling ♦ Differentiation and Development ♦ Building Multicellular Organisms ♦ Cytoskeleton and Cell Motility ♦ Growth, Sexual Reproduction and Ageing ♦ Cell Death and Cell Renewal ♦ Plant Growth and Development ♦ Immune Response ♦ Non-Cellular Life Forms ♦ Tools for the Study of Cells ♦ Index

2010

624 pp.

Paperback

978-81-7371-716-1

₹ 1,595

Manual of Practical Biochemistry  
(Fifth Edition)

Rafi MD

Dean and Medical Director of Surabhi Institute of Medical Sciences, Siddipet, Telangana.



This book provides a concise introduction to qualitative and quantitative analysis of substances of biochemical importance for undergraduate medical students. It covers all the skill-based aspects of the CBME curriculum of biochemistry.

**Special features:**

- Maps the contents of the books to be practical curriculum of CBME for easy reference
- Topics such as urinary screening tests for inborn errors of metabolism, energy content of various food items, significance of glycemic index, and saturated, unsaturated and trans-fatty acids in food are newly included in this edition.
- Tabulations summarising biochemical tests, procedures and outcomes included appropriately to make it easy for students to obtain information at a glance
- Exercises comprising MCQs, viva voce questions and questions based on problem-solving skills and interpretation of laboratory data of common clinical conditions are updated

**Contents:** Safety in the Laboratory ♦ Precautions ♦ First Aid in the Laboratory ♦ **Qualitative Experiments** ♦ Reactions of Non-protein Nitrogenous (NPN) Substances ♦ Urea ♦ Uric Acid ♦ Creatinine ♦ Identification of unknown NPN substances ♦ Analysis of Urine ♦ Physical Examination ♦ Microscopic Examination ♦ Chemical Analysis ♦ Analysis of Abnormal Constituents of Urine ♦ Glucose ♦ Ketone Bodies ♦ Proteins ♦ Blood ♦ Bile Salts ♦ Bile Pigments ♦ Identification of unknown abnormal constituents in urine ♦ **Quantitative Experiments** ♦ Clinical Biochemistry Laboratory: Instrumentation and Techniques ♦ Glassware and

Instruments Commonly Used in the Laboratory  
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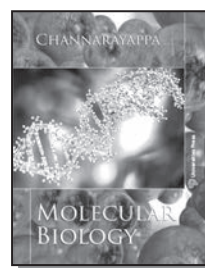
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**2025****244 pp.****Paperback****978-81-9742-497-7****₹ 475.00**

## Molecular Biology

**Channarayappa**

Professor and Head, M S Ramaiah Institute of Technology, Bengaluru, India.



The study of molecular biology has widespread applications covering genetic research, drug delivery systems, stem cell therapy and cancer treatment. The functioning of biological systems is based on the flow of genetic information from the nucleotides of the DNA to the RNA leading to the production of various cellular proteins. Thus, control is exercised only by modifying the various stages of protein synthesis. Hence, the ideal approach to the study of the subject is in understanding the genetic processes that are reflected as changes in protein reactions.

This book is a comprehensive overview of the subject and is written in a clear and simple language. It also incorporates several student-friendly features. There are numerous illustrations and tables that will enable the readers to grasp the concepts easily. Each chapter begins with Learning Objectives and includes Key Points and Self-assessment Questions. The Further Reading section guides the students towards advanced discussion of the topics. It is hoped that the book will be a valuable textbook to students of biotechnology, genetics and other courses which have molecular biology as a component.

**Contents:** Introduction to Molecular Biology ♦ The

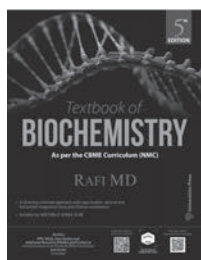
Cell: Structure and Functions ♦ Chemistry of Cells ♦ Basic Rules of Inheritance ♦ Nucleic Acids ♦ Structure and Organisation of Genome ♦ The Cell Cycle ♦ DNA Replication ♦ Transcription ♦ RNA Processing ♦ Genetic Code ♦ Translation: Decoding the Genetic information ♦ Protein Processing and Transportation ♦ Regulation of Gene Expression in Prokaryotes ♦ Regulation of Gene Expression in Eukaryotes ♦ Epigenetic Regulation ♦ Genetic Recombination ♦ Mobile Elements: Drivers of Genome Evolution ♦ Mutagenesis and DNA Repair ♦ Molecular Biology of Cancer ♦ *Index*

**2015**                      **508 pp.**                      **Paperback**  
**978-81-7371-946-2**                      **₹ 1,475.00**

## Textbook of Biochemistry (Fifth Edition)

**Rafi MD**

Dean and Medical Director, Surabhi Institute of Medical Sciences, Siddipet, India.



Online resources  
available

The fifth edition of the *Textbook of Biochemistry* incorporates significant revisions that emphasize the clinical orientation and integration aspects of the CBME syllabus. It thus includes a larger number of case studies throughout the text for providing students with early clinical exposure, as well as vertical and horizontal integration boxes that show the relationship between biochemistry and other medical subjects. The revisions also ensure that the CBME syllabus is complied with in all respects and the book continues to provide undergraduate medical students with an easy-to-understand overview of biochemistry concepts. The book will also be a valuable study resource for students of allied health fields and those preparing for competitive examinations.

### Special features:

- Content covers the CBME syllabus
- Case-based learning, together with clinical

- pictures wherever relevant, interspersed throughout the text for providing students with early clinical exposure
- Vertical and horizontal integration boxes containing short descriptions linking biochemistry with other medical disciplines and basic sciences
- Clinical correlation boxes to help students visualise the applied aspects of biochemistry
- Liberal use of illustrations and tabular layouts to help assimilation and recall of the inherently complex aspects of biochemistry
- Section-wise summaries provided in chapters for better recapitulation
- Consistent emphasis on explanations of biochemical mechanisms and molecular dynamics of body functions and their correlation to clinical conditions
- Focus on biologic oxidation, various metabolisms, and 'dynamics of the pathway' – a unique attempt at exploring metabolic pathways from different angles
- A wide selection of MCQs, useful for university examinations as well as competitive examinations such as PG NEET/NEET (MD/MS entrance), PLAB and USMLE
- Additional riddles and problems accessible through QR codes provided at the end of each chapter

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**Contents: Prelude** – Molecular and Functional Organisation of Life ♦ Learning Biochemistry ♦ The Cell and Biological Membranes: Structure and Function ♦ **II Molecules of Life** ♦ Carbohydrates ♦ Lipids ♦ Amino Acids and Proteins ♦ Nucleotides and Nucleic Acids ♦ Enzymes ♦ Clinical Enzymology ♦ Fat-Soluble Vitamins ♦ Water-Soluble Vitamins ♦ **III Physiological Biochemistry** ♦ Biochemistry of Blood ♦ Hemoglobin and the Chemistry of Respiration ♦ Heme Synthesis and Degradation ♦ Digestion and Absorption ♦ **IV Metabolism** ♦ A Journey into Metabolism ♦ Central Metabolism: Biological Oxidation ♦ Metabolism of Carbohydrates ♦ Blood Glucose Homeostasis – Hormones of the Pancreas and Diabetes Mellitus ♦ Metabolism of Lipids ♦ Metabolism of Cholesterol, Lipoproteins and the Diseases Associated with Lipid Metabolism

♦ Metabolism of Amino Acids – General Aspects ♦ Metabolism of Individual Amino Acids and Diseases Associated with Them ♦ Metabolism of Nucleotides ♦ Integration of Metabolism ♦ Metabolism of Xenobiotics: Detoxification ♦ **V Nutrition** ♦ Minerals ♦ Principles of Nutrition ♦ **VI Clinical Biochemistry** ♦ Water and Electrolytes ♦ Acid -Base Balance ♦ Organ Function Tests ♦ Biochemistry of Cancer ♦ **VII Molecular Biology** ♦ DNA Metabolism ♦ RNA Metabolism ♦ Protein Biosynthesis ♦ Regulation of Gene Expression ♦ **VIII Biotechnology and Immunology** ♦ Recombinant DNA Technology ♦ Molecular Diagnostics ♦ Biochemical Techniques ♦ Immunochemistry ♦ **IX Biochemical Perspective of Endocrinology** ♦ Hormone Action ♦ Hypothalamic and Pituitary Hormones ♦ Thyroid Hormones ♦ Hormones of the Adrenal Gland ♦ Hormones of the Gonads ♦ **X Contemporary Topics** ♦ Extracellular Matrix ♦ Reactive Oxygen Species and Antioxidants ♦ Biochemical Genetics ♦ Environmental Pollutants, Toxins and Biomedical Waste Management ♦ Human Genome Project and Bioinformatics ♦ Gene Therapy ♦ **Appendixes** ♦ A1. Attitude, Ethics and Communication (AETCOM) ♦ A2. Reference Values and Interpretation of Biochemical Parameters: A Ready Clinical Reference ♦ *Index*

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## BIOMEDICAL SCIENCES

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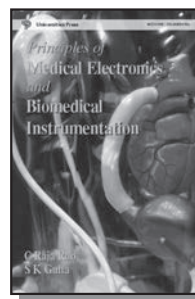
### Principles of Medical Electronics and Biomedical Instrumentation

**C Raja Rao**

Formerly Senior Professor of Electronics and Communication Engineering; Principal and Dean of Engineering, Sri Venkateswara University College of Engineering, Tirupati, India.

**S K Guha**

Professor, Centre for Biomedical Engineering, Indian Institute of Technology and All India Institute of Medical Sciences, New Delhi; Chair Professor, Indian Institute of Technology Kharagpur, Kharagpur, India.



The book caters primarily to the syllabi of Medical Electronics and Biomedical Instrumentation courses at the B.Tech. and M.Tech. levels in Engineering, Applied Physics and also serves the needs of AMIE (Section-B) students as well as Polytechnic students. For Medical and Paramedical personnel, this book is useful as a reference and for the electronics engineer and technician, the book will serve as a bridge to the medical world they will be serving. Chapters on Biotelemetry, Computer Applications in Medicine, and the Hospital and Medical Electronics Department are some of the highlights of this book.

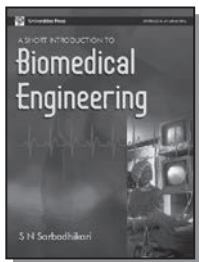
**Contents:** Introduction ♦ Human cell-action potentials ♦ Basis of bioelectric potentials ♦ Biopotential electrodes ♦ Transducers for biomedical applications ♦ Biomedical amplifiers ♦ Principles of recorders for recording bioelectric events ♦ Electrocardiography ♦ Electroencephalography ♦ Electromyography ♦ Respiration ♦ Special techniques for measurements of nonelectrical biological parameters ♦ Electronic instruments for affecting the human body ♦ Biotelemetry ♦ Patient monitoring and intensive care system ♦ Patient safety and electromedical equipment ♦ Computer applications in medicine ♦ The hospital and the medical electronics department ♦ *Bibliography* ♦ *Index*

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## Short Introduction to Biomedical Engineering, A

S N Sarbadhikari

Project Director, Centre for Health Informatics,  
National Health Portal, New Delhi, India.



Bioengineering is the application of electrical, mechanical, chemical, optical and other engineering principles to understand, modify or control biological systems, and also to design and manufacture products for monitoring physiological functions, assisting in diagnoses, assessing prognoses and helping in the treatment of patients. This book presents a bird's eye view of the important components of biomedical engineering for the benefit of undergraduate and postgraduate students. It also provides a glimpse of the emerging trends in biomedical engineering like telemedicine and the wider use of computers in health care.

**Contents:** *Foreword* ♦ *Preface* ♦ **Section I: Bioinstrumentation** ♦ Origin of Biopotentials, Electrodes, Transducers and Amplifiers ♦ Some important Biomedical Equipment ♦ **Biotelemetry** ♦ **Section II: Electrophysiological Signal Analysis and Processing** ♦ Interaction of signals in the Neuromuscular System and their Models I ♦ Acquisition, Digitisation, Storing and display of some important Biomedical signals ♦ Some Signal Processing Tools ♦ Methods of Medical Data Acquisition, Analysis, Compression and Monitoring ♦ **Section III: Biomechanics** ♦ Properties and Models of Bones ♦ Biomechanics of Implant tissues ♦ Sports Biomechanics ♦ **Section IV: Biomaterials** ♦ Structure and Properties of some biological materials ♦ Properties Compatibility Characteristics and Performance of Implants ♦ Structural Properties of synthetic Biomaterials and their use as Biomaterial Substitutes ♦ **Section V: Kinesiology and Biological Control** ♦ Kinesiology of Human Musculoskeletal System, Orthopedic Biomechanics, Locomotion

Analysis ♦ Biomechanics of Human Motion and control interfaces with Application to Limb Orthotics and Prosthetics ♦ Principles of Feedback control and Fluid (Blood/Air) Mechanics in Biology ♦ **Section VI: Imagology** ♦ Ultrasonography, Colour Doppler ♦ X-rays, CT and other scanners ♦ **Section VII: Computers in Medicine and Healthcare** ♦ Medical Informatics ♦ **Section VIII: Biostatistics** ♦ Basic Statistical Methods for Analysing Biomedical Data ♦ **Section IX: Safety, Planning and Ethical Issues** ♦ Safety Measures for Biomedical Equipment ♦ Planning Biomedical Instrumentation for Diagnosis, Therapy and Rehabilitation ♦ Social and Ethical issues related to Biomedical Engineering ♦ *Appendix 1* ♦ *Appendix 2* ♦ *Appendix 3* ♦ *Appendix 4*

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2006

276 pp.

Paperback

978-81-7371-558-7

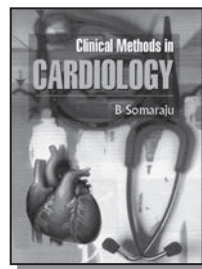
₹ 950.00

## CARDIOLOGY

### Clinical Methods in Cardiology

B Soma Raju

Chairman, Care Hospitals, Hyderabad, India.



Of late there have been dramatic breakthroughs in basic research, exciting results of major clinical trials, and new diagnostic and therapeutic devices. However, in order to effectively use these devices, the physician needs to keep two basic factors in mind: understand the fundamentals of the history and physical examination (rather than rely blindly on technology) and be aware of the unique patient-care issues of different regions of the globe.

This book addresses both issues in an outstanding manner. The author brings his enormous wealth of clinical experience to this

book, which is an exposition of his basic thesis that the clinical evaluation of the patient forms the foundation upon which the management of the patient is built.

**Contents:** The Science and Art of Medicine ♦ Patient Presentations ♦ Cardiovascular Diagnosis ♦ Functional Categorization of Cardiovascular Disability ♦ Cardiovascular Dynamics: Basic Considerations ♦ The Patient's History ♦ Evaluation of Chest Pain: Diagnostic and Therapeutic Implications ♦ Dyspnea ♦ Syncope ♦ Palpitation ♦ Fever in a Patient with Heart Disease ♦ The Arterial Pulse ♦ Blood Pressure ♦ The Jugular Venous Pulse ♦ The Cardiac Impulse ♦ Auscultation of the Heart ♦ The First Heart Sound ♦ The Second Heart Sound ♦ The Third Heart Sound ♦ The Fourth Heart Sound ♦ Ejection and Non-ejection Clicks ♦ Heart Murmurs ♦ Systolic Murmurs ♦ Diastolic Murmurs ♦ Continuous Murmurs ♦ The Pericardial Rub ♦ Approach to Auscultation ♦ *Index*

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| <b>2002</b>              | <b>524 pp.</b> | <b>Paperback</b>  |
| <b>978-81-7371-657-7</b> |                | <b>₹ 1,525.00</b> |

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## DERMATOLOGY

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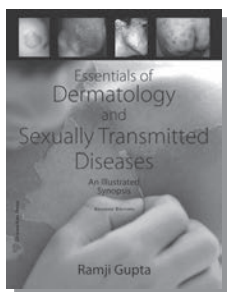
### Essentials of Dermatology and Sexually Transmitted Diseases: An Illustrated

#### Synopsis

(Second Edition)

**Ramji Gupta**

Senior Consultant Dermatologist, Indraprastha Apollo Hospital, New Delhi, India.



This is an easy-to-read book that addresses theory as well as clinical sections of the undergraduate medical curriculum. It will also be useful to the general practitioner handling dermatological cases in routine practice.

#### Salient features:

- Twenty-five chapters with concise description of diseases, their classical presentation and currently used methods of treatment.
- Classification of most of the diseases according to their etiological mechanism.
- Bulleted text for a clear and crisp presentation to assist the undergraduate medical student.
- A total of 134 tables for easy memorisation of topics and effective presentation during examination.
- Text interspersed with 584 clinical photographs providing crucial visual information about skin conditions.
- High-quality colour images to clearly demonstrate the results of treatments like cryotherapy, skin excision, grafting, etc.
- An additional section on the Syndromic Management Approach for STDs to cater to the requirements of the curriculum; also useful to practitioners in healthcare settings.
- A consolidated document for Management Options in Dermatology provided as appendix.

**Contents:** *Preface to the Second Edition* ♦ *Preface to the First Edition* ♦ *Acknowledgements* ♦ Structure and Functions of Skin ♦ History and Examination ♦ Hereditary Disorders ♦ Naevi ♦ Nutritional Deficiencies ♦ Metabolic Disorders ♦ Diseases due to Physical Agents ♦ Bacterial Infections ♦ Tuberculosis ♦ Leprosy ♦ Fungal Infections ♦ Viral Infections ♦ Diseases due to Arthropods ♦ Diseases of the Hair ♦ Diseases of the Sebaceous Glands ♦ Diseases of the Sweat Glands ♦ Diseases of the Nails ♦ Disorders of Pigmentation ♦ Allergic Disorders ♦ Autoimmune Disorders ♦ Skin Disorders in Systemic Diseases ♦ Tumours of the Skin ♦ Sexually Transmitted Diseases ♦ Acquired Immunodeficiency Syndrome (AIDS) ♦ Miscellaneous Disorders ♦ *Appendix* ♦ *Index*

|                          |                |                  |
|--------------------------|----------------|------------------|
| <b>2018</b>              | <b>216 pp.</b> | <b>Paperback</b> |
| <b>978-93-86235-54-1</b> |                | <b>₹ 825.00</b>  |

## FORENSIC MEDICINE

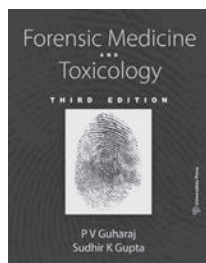
### Forensic Medicine and Toxicology (Third Edition)

P V Guharaj

Formerly Director of Kozhikode Medical College,  
Kozhikode, India.

Sudhir K Gupta

Professor and Head, Department of Forensic  
Medicine, All India Institute of Medical Sciences, New  
Delhi, India.



Online resources  
available

Authored by PV Guharaj, *Forensic Medicine* was first published in 1982 primarily as a textbook for undergraduate students of medicine. The book was considered an authentic source of reference, not only for students of medicine but also for police surgeons, medical practitioners, law enforcement agencies and members of the judiciary. The third edition of *Forensic Medicine and Toxicology* applies a more contemporary lens to the application of medical and paramedical sciences to the various branches of law in keeping with the advancements in the field of medicine and the legislature in India. This book, which has been revised in accordance with the latest MBBS curriculum as prescribed by the MCI as well as the new AIIMS curriculum, contains a host of new topics, case studies and examples to help students gain a thorough understanding of this complex subject.

#### Special features:

- Revised and updated as per the MCI guidelines
- Includes all the latest laws, amendments and landmark Supreme Court Judgements
- Includes a wide range of contemporary topics such as euthanasia, Assisted Reproductive Technologies (ART), the ICD-10 classification of mental illnesses, pharmaceutical toxicology,

hormone replacement therapy, toxicokinetics and toxicodynamics, etc.

- More than 260 high-quality, colour images and 150 multi-coloured illustrations to help student visualise concepts better
- Over 100 tables to aid in the assimilation and retention of the material
- Integrated approach that combines the latest developments in law and medicine
- Clear, vibrant and concise presentation for better readability; highlighted and boxed elements to draw students' attention to important nuggets of information
- Several case studies and legal examples, mostly from the authors' own experience, to help students correlate theory to practice
- Twenty-two appendices that include the most significant pro formas used in judicial and police investigations of medicolegal cases

Online resources available at:  
[www.universitiespress.com/  
forensicmedicineandtoxicology](http://www.universitiespress.com/forensicmedicineandtoxicology)

**Contents:** *Preface to the Third Edition* ♦ *Preface to the First Edition* ♦ **Section I – Forensic Medicine** ♦ Introduction and History ♦ Legal Procedures in India and Abroad ♦ The Medical Council of India, Medical Ethics and Negligence ♦ Personal Identity Death: Diagnosis and Postmortem Changes ♦ The Medicolegal Autopsy and Related Procedures ♦ Examination of Mutilated Bodies, Skeletal Human Remains and Exhumation ♦ Mass Disasters ♦ Sudden and Unexpected Death ♦ Mechanical and Firearm Injuries ♦ Regional Injuries ♦ Road Traffic, Railway and Aircraft Accidents ♦ Medicolegal Aspects of Wounds ♦ Thermal, Electrical and Radiation Injuries ♦ Asphyxial Deaths ♦ Decompression and Altitude Sickness ♦ Sexual Offences and Paraphilias ♦ Virginity, Pregnancy, Delivery and Abortion ♦ Impotence, Sterility and Artificial Insemination ♦ Infanticide, Battered Baby and Sudden Infant Death Syndrome ♦ Forensic Psychiatry ♦ Blood, Semen and Other Biological Materials ♦ Death from Starvation ♦ Death and Complications in the Operation Theatre ♦ Medicolegal Aspects of AIDS ♦ **Section II – Toxicology** ♦ General Toxicology ♦ Corrosive Poisons ♦ Heavy Metal Poisoning ♦ Agricultural

Poisons ♦ Poisonous Plants ♦ Poisonous Snakes and Arthropods ♦ Drugs of Intoxication and Dependence ♦ Irrespirable Gases ♦ Food Poisoning ♦ *Appendices* ♦ *Index*

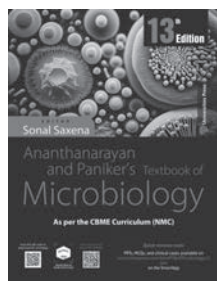
2019                      736 pp.                      Paperback  
978-93-86235-78-7                      ₹ 1,550.00

## MICROBIOLOGY

### Ananthanarayan and Paniker's Textbook of Microbiology (Thirteenth Edition)

Sonal Saxena (Ed.)

Director Professor and Head, Department of Microbiology, Maulana Azad Medical College, New Delhi.



Online resources  
available

Experience a refreshingly new approach to the study of microbiology with the 13th edition of *Ananthanarayan and Paniker's Textbook of Microbiology*. This edition has been thoroughly revised to align with the Competency-based Medical Education (CBME) curriculum for Indian medical graduates. The book is divided into three sections:

- Parts I and II – 'General Microbiology' and 'Immunology' – address the core concepts of microbiology, providing a solid foundation for learners.
- Part III – 'Microbiology Applied to Infectious Diseases' – focuses on infective syndromes as applied to various organ systems, offering practical insights into disease management.

#### Key features:

- **Competency framework integration:** Each chapter is structured to address specific competencies outlined by the National Medical

Commission to ensure that learners develop the essential skills for medical practice.

- **Clinical integration:** Clinical case vignettes and examples illustrate the relevance of microbiological concepts in real-world scenarios, facilitating knowledge transfer from the classroom to the patient's bedside.
- **Learning resources:** The incorporation of review questions, case-based discussions, and online resource including interactive MCQs enhances engagement and facilitates active learning, enabling self-assessment and reinforcing key concepts.
- **General microbiology including parasitology:** The introductory chapters provide a holistic understanding of bacteriology, virology, mycology, and parasitology. Content has been revised to include updated content on plasma sterilisation, CSSD, and care bundle approach.
- **Immunology:** Concepts related to immunology and their impact on human health and disease are explained comprehensively. Immunisation for adults has been added.
- **Syndrome-based learning:** Updated information has been added on various infective syndromes, including causative organisms, epidemiology, relevant investigations, treatment, and prevention, in keeping with the syndromic approach prescribed by the NMC. Parasitology has been integrated into all the syndromes.
  - ♦ Pathogenesis of all major infections presented as flowcharts
  - ♦ Lab diagnosis represented as unique algorithms and flowcharts
  - ♦ Tabular columns for quick revision
  - ♦ Colour-coded tables depicting the relative significance of causative organisms
  - ♦ Clinical and laboratory images have been updated
  - ♦ Revised content on topics such as HIV, direct-acting antivirals, National Hepatitis Control Programme guidelines, and zoonotic diseases
- **AETCOM integration:**
  - ♦ New chapter on the AETCOM competencies applicable to microbiology and in line with the NMC guidelines

- ♦ Relevant AETCOM components have been integrated into the laboratory aspects of patient investigations within individual chapters

The 13th edition is extremely student-friendly and examination oriented.

This edition offers a comprehensive and practical approach to microbiology education, equipping learners with the essential skills and knowledge for medical practice.

Online resources available at [www.universitiespress.com/AandPTBofMicrobiology13](http://www.universitiespress.com/AandPTBofMicrobiology13)

**Contents: Part I General Microbiology** ♦ History and scope of microbiology ♦ Microscopy ♦ Basic concepts of bacteriology ♦ Systematic bacteriology ♦ Basic concepts of virology ♦ Basic concepts of mycology ♦ Basic concepts of medical parasitology ♦ Microbial genetics ♦ Epidemiology of infectious diseases ♦ Sterilisation and disinfection ♦ Antimicrobial agents ♦ Healthcare-associated infections and their control ♦ **Part II Immunology** ♦ Immunological mechanisms in health ♦ Antigens, antibodies, and the complement system ♦ Mechanisms of immune response ♦ Laboratory methods used in the detection of immunological response (antigen–antibody reactions) ♦ Hypersensitivity ♦ Autoimmune disorders and immunodeficiency states ♦ Immunological mechanisms of transplantation, immunohematology, and tumour immunity ♦ Immunoprophylaxis ♦ **Part III Microbiology as Applied to Infectious Diseases** ♦ Cardiovascular and bloodstream infections ♦ Acquired immunodeficiency syndrome (AIDS) ♦ Infections of the respiratory system ♦ Central nervous system infections ♦ Gastrointestinal infections ♦ Hepatobiliary infections ♦ Genitourinary and sexually transmitted infections ♦ Urinary tract infections ♦ Skin, soft tissue, and musculoskeletal infections ♦ Infections of the eyes and ears and congenital infections ♦ Zoonotic and vector-borne infections ♦ Opportunistic infections ♦ Emerging infections ♦ Oncogenic viruses ♦ National health programmes, disease detection, and reporting ♦ AETCOM ♦ Index

2025

798 pp.

Paperback

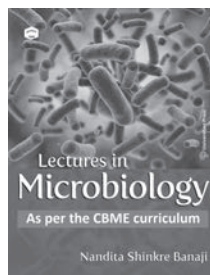
978-93-93330-65-9

₹ 1,495.00

## Lectures in Microbiology

**Nandita Shinkre Banaji**

Professor and Head, Department of Microbiology, Indira Gandhi Medical College & Research Institute (a Govt. of Puducherry Institution).



Online resources  
available

*Lectures in Microbiology*, a concise and contemporary textbook of microbiology, has been written with a specific focus on the Competency-Based Medical Education (CBME) curriculum prescribed for Indian medical graduates. It aims to equip undergraduate students with sound knowledge of the core concepts of microbiology and to aid faculty in teaching the subject in keeping with the new guidelines, which propose a reduction in teaching hours and revised teaching modalities. To enhance the ease of revision, brief section-wise summaries have been provided in addition to questions at the end of each chapter.

### Salient features:

- This textbook on microbiology is written with a specific focus on the competency-based approach prescribed for Indian medical graduates
- Its aim is to guide and assist the faculty in teaching microbiology, considering the change in scope and the reduction in teaching hours
- A syndromic approach adopted for all infectious agents—bacteria, viruses, fungi and parasites
- Focuses on the core competencies for avoiding content meant for postgraduates
- Microbiologic laboratory practices feasible at primary healthcare level are given importance, including practical certifiable competencies and AETCOM
- Real case scenarios included wherever relevant for early clinical exposure
- Practical approach to the use of sterilisation and disinfection methods in healthcare settings

- Includes rational use of antimicrobials and role of antimicrobial resistance in clinical therapy
- SAQs presented in consonance with the principles of medical education
- Brief summary for each section for a quick and easy revision
- National programme strategies wherever applicable have been updated until the year 2021

Online resources available at: [www.universitiespress.com/lecturesinmicrobiology](http://www.universitiespress.com/lecturesinmicrobiology)

**Contents:** *Preface* ♦ SECTION I: General microbiology (MI 1.1–1.6, 8.9–8.15) ♦ Introduction to Microbiology ♦ Classification and Characteristics of Bacteria ♦ Classification and Characteristics of Viruses ♦ Classification and Characteristics of Fungi ♦ Classification and Characteristics of Parasites ♦ Infection and Epidemiologic Principles ♦ Collection of Samples in Infections ♦ Laboratory Diagnosis of Infections ♦ Bacterial Genetics and Antimicrobial Resistance ♦ SECTION II: Immunology (MI 1.7–1.11) ♦ Immunity ♦ Antigen and Vaccine ♦ Antibody and Complement ♦ The Immune System ♦ The Immune Response ♦ Hypersensitivity ♦ Autoimmunity and Immunodeficiency ♦ Transplantation and Tumour Immunology ♦ SECTION III: Musculoskeletal, skin and soft tissue infections (MI 4.1–4.3) ♦ Abscess, Cellulitis, Myositis, Tetanus, Infective Arthritis and Osteomyelitis ♦ Leprosy and Cutaneous Mycobacterial Infections ♦ Viral Infections with Dermal Manifestations ♦ Superficial and Subcutaneous Mycotic Infections ♦ Parasitic Infections with Dermal Manifestations ♦ SECTION IV: Cardiovascular system and blood infections (MI 2.1–2.7) ♦ Infective Endocarditis, Rheumatic Fever, Bacterial Sepsis, FUO, Anemia, Transfusion and Transplantation-Associated Infections ♦ HIV and Viral Hemorrhagic Fevers ♦ Kala-Azar, Malaria and Filaria ♦ SECTION V: Gastrointestinal and hepatobiliary infections (MI 3.1–3.8) ♦ Gastrointestinal Infections and Food Poisoning ♦ Infective Diarrhea ♦ Dysentery and Acid Peptic Disease ♦ Gastrointestinal Infestations ♦ Viral Hepatitis ♦ Hepatic Cyst and Abscess ♦ SECTION VI: Central nervous system infections (MI 5.1–5.3) ♦ Meningitis ♦ Encephalitis ♦ Brain Abscess and Cyst ♦ SECTION VII: Respiratory

tract infections (MI 6.1–6.3) ♦ Upper Respiratory Tract Infections ♦ Lower Respiratory Tract Infections ♦ Tuberculosis and Non-Tuberculous Mycobacteria ♦ Respiratory Viral Infections ♦ Fungal and Parasitic Pulmonary Disease ♦ SECTION VIII: Genitourinary and sexually transmitted infections (MI 7.1–7.3) ♦ Urinary Tract Infection ♦ Sexually Transmitted Infections ♦ SECTION IX: Zoonoses and other infections (MI 8.1–8.4) ♦ Zoonoses and Vector-Borne Infections ♦ Opportunistic, Oncogenic, Perinatal, Teratogenic, Emerging and Ocular Infections ♦ SECTION X: Hospital-acquired infections (MI 1.5, 8.5–8.8) ♦ Hospital-Acquired Infections and Safety Precautions ♦ Principles and Practice of Sterilisation and Disinfection ♦ Outbreak Investigation and Environmental Surveillance ♦ *Further Reading* ♦ *Index*

2021

288 pp.

Paperback

978-81-95400-91-1

₹ 795.00

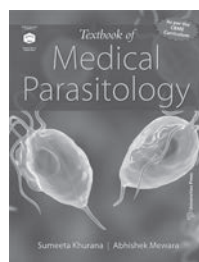
## Textbook of Medical Parasitology

**Sumeeta Khurana**

Professor, Department of Medical Parasitology, Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh, India.

**Abhishek Mewara**

Assistant Professor, Department of Medical Parasitology, Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh, India.



Online resources  
available

*Textbook of Medical Parasitology* is written as per the Competency-Based Medical Education (CBME) guidelines for undergraduate and postgraduate students of medicine. It deals comprehensively with the commonly encountered as well as emerging parasitic infections. The salient features of individual parasites and the diseases caused by them have been presented in a

crisp and structured format to enhance students' comprehension of the complex processes and concepts of medical parasitology.

#### Salient features:

- Chapters arranged according to the organ systems various parasites affect in line with the integrated approach to system-wise infectious diseases prescribed for the undergraduate student of medicine by the CBME curriculum
- Core chapters contain up-to-date information about the morphology, life cycle and pathogenesis of individual parasites and the clinical features, diagnosis, management and prevention of the diseases caused by them
- Learning objectives and clinical case studies at the beginning of the core chapters
- Introduction to zoonotic infections and 'One Health', medical entomology and control programmes for parasitic infections
- Nearly 100 detailed illustrations and 180 colour photographs for better understanding of the morphological features, life cycles and diagnostic features of parasites
- Important concepts and points set apart in tables and text boxes for easy assimilation and recall
- Over 120 descriptive and 280 multiple-choice questions at the end of core chapters to aid in revision and preparation for examinations
- The laboratory diagnosis of parasitic infections, the materials required for testing and the drug therapy for parasitic infections detailed in the annexures at the end of the book

*Online resources available at:*  
[www.universitiespress.com/  
 textbookofmedicalparasitology](http://www.universitiespress.com/textbookofmedicalparasitology)

**Contents:** SECTION I: Introduction ♦ Introduction to Medical Parasitology ♦ Immunology of Parasitic Infections ♦ SECTION II: Protozoa ♦ Protozoa—Introduction and Classification Intestinal Protozoa: Amoebae ♦ Entamoeba histolytica Intestinal Protozoa: Flagellates ♦ Giardia Intestinal Protozoa: Ciliates ♦ Balantidium coli Intestinal Protozoa: Coccidia and

Microsporidia ♦ Cryptosporidium ♦ Cystoisospora ♦ Cyclospora ♦ Sarcocystis ♦ Microsporidia Genitourinary Protozoa ♦ Trichomonas Blood and Tissue Protozoa ♦ Plasmodium ♦ Babesia ♦ Trypanosoma brucei ♦ Trypanosoma cruzi ♦ Leishmania (Visceral Leishmaniasis) ♦ Leishmania (Cutaneous and Mucocutaneous Leishmaniasis) ♦ Toxoplasma Free-Living Amoebae of the CNS and other Organ Systems ♦ Naegleria ♦ Acanthamoeba and Balamuthia ♦ **SECTION III: Helminths** ♦ Helminths—Introduction and Classification Intestinal Nematodes ♦ Soil-Transmitted Helminths (STH) ♦ Ascaris (Roundworm) ♦ Trichuris (Whipworm) ♦ Necator and Ancylostoma (Hookworms) ♦ Strongyloides ♦ Enterobius (Pinworm) Tissue Nematodes ♦ Trichinella ♦ Toxocara and other Larva Migrans ♦ Angiostrongylus ♦ Dracunculus Filarial Nematodes ♦ Wuchereria and Brugia ♦ Loa loa ♦ Onchocerca ♦ Mansonella and Dirofilaria Intestinal Cestodes (Tapeworms) ♦ Taenia ♦ Diphyllbothrium ♦ Hymenolepis Tissue Cestodes ♦ Taenia solium – Cysticercosis ♦ Echinococcus Intestinal Trematodes (Intestinal Flukes) ♦ Fasciolopsis and other Intestinal Nematodes Liver Trematodes (Liver Flukes) ♦ Fasciola ♦ Clonorchis and Opisthorchis Lung Trematodes (Lung Flukes) Paragonimus Blood Trematodes (Blood Flukes) ♦ Schistosoma ♦ **SECTION IV: Disease Manifestations of Parasitic Infections** ♦ Gastrointestinal and Hepatobiliary System Infections ♦ Cardiovascular and Hemolymphatic System Infections ♦ Central Nervous System Infections ♦ Genitourinary System and Sexually Transmitted Infections ♦ Respiratory Tract Infections ♦ Musculoskeletal System, Skin and Soft Tissues Infections ♦ Ocular Infections ♦ Opportunistic Infections ♦ **SECTION V: Miscellaneous** ♦ Medical Entomology ♦ Zoonotic Infections and One Health ♦ Control Programmes for Parasitic Diseases ♦ Annexures ♦ Approach to the Laboratory Diagnosis of Parasitic Infections ♦ Stains, Reagents and Culture Media ♦ Drug Therapy for Parasitic Infections

2021

384 pp.

Paperback

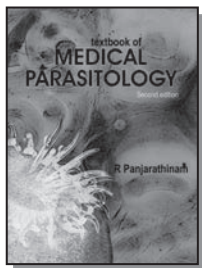
978-93-89211-89-4

₹ 950.00

## Textbook of Medical Parasitology, A (Second Edition)

**R Panjarathinam**

Formerly Professor of Microbiology, B J Medical  
College, Ahmedabad, India.



This book is a detailed study of parasites and their relations with their hosts and includes a discussion of the diseases caused by parasites and their treatment.

### Special features:

- Six pages of colour photographs have been included. The book is generously illustrated with new line drawings.
- A detailed summary is given at the end of relevant chapters.
- Questions and answers have also been provided on all major topics.
- A glossary of technical terms has been included, to provide quick reference.
- Information has been updated in this edition; e.g., a spectrum of parasitic opportunists found in association with the human immunodeficiency virus (HIV) infection have been looked at, and chapters discussing immunoparasitology, recent parasitic serology, culture media, free living amebae, microsporidia and tumour associated parasites have been included.
- New topics such as pseudoparasites, stool and blood examinations, serological tests, treatment, signs and symptoms of parasitic diseases, parasites of various organs and common parasites prevalent in India, have also been added.

**Contents:** General Introduction ♦ Protozoa ♦ Rhizopoda ♦ Zoomastigophorea ♦ Sporozoa ♦ Ciliata (Balantidium coli) ♦ Cestodes ♦ Class Trematoda ♦ Class Nematoda ♦ Immunoparasitology ♦ Parasitisms-Occurrence, Symptoms and Treatment

♦ Vectors and Diseases ♦ Laboratory Examinations ♦ Culture Media ♦ *Appendix* ♦ *Index*

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## NURSING

### Achar's Textbook of Pediatrics (Fifth Edition)

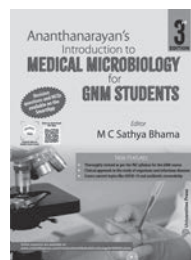
**Swarna Rekha Bhat (Ed.)**

See page 36

### Ananthanarayan's Introduction to Medical Microbiology for GNM Students (Third Edition)

**M C Sathya Bhama (Ed.)**

Professor of Microbiology, Government Medical  
College, Thiruvananthapuram, Kerala.



The third edition of *Introduction to Medical Microbiology for GNM Students* has been written with the aim of providing concise, relevant and updated information on microbiology to nursing students so that they can fulfil their role in the Indian healthcare system. This edition has undergone a complete transformation to address the requirements of the current syllabus. The book is also intended to help in identifying opportunities for practising infection control measures in hospital and community settings. Each chapter has been updated and revised extensively. Emphasis is given to hospital-acquired infections, standard precautions, biomedical waste management and antimicrobial stewardship. Suggestions from teachers and students were

also taken into consideration while preparing this edition.

#### Special features:

- Updated as per the guidelines and recommendations laid out by the INC for GNM students
- Divided into seven distinct sections—General Microbiology, Immunology, Systematic Bacteriology, Virology, Mycology, Parasitology and Applied Microbiology
- Core immunological concepts discussed comprehensively to provide readers with an understanding of the body's defence mechanisms
- Essential features of the important organisms in each group, the clinical picture of the diseases they cause, and their lab diagnosis and treatment are discussed succinctly
- The relevance of various topics to the practice of nursing has been highlighted
- Simple language and reader-friendly presentation
- New laboratory and clinical colour images and line diagrams included
- Important information presented in boxes and tables for easy recall
- Recent developments in applied microbiology such as antibiotic stewardship programme and immunisation programmes covered as required for GNM students

#### Contents: PART I GENERAL MICROBIOLOGY ♦

Introduction and History ♦ Microscopy and Staining Microscopy ♦ Morphology and Physiology of Bacteria ♦ Culture Media and Culture Methods ♦ Identification of Bacteria ♦ Antibiotic Sensitivity Testing ♦ Infection ♦ Normal Microbial Flora of the Human Body ♦

**PART II IMMUNOLOGY** ♦ Immunity ♦ Antigens, Antibodies and Complement ♦ Antigen–Antibody Reactions ♦ Hypersensitivity and Autoimmunity ♦ Vaccines and Immunisation ♦

**PART III SYSTEMATIC BACTERIOLOGY** ♦ Gram-Positive Cocci ♦ Gram-Negative Cocci ♦ Gram-Positive Bacilli ♦ Gram-Negative Bacilli ♦ Mycobacteria ♦ Spirochetes ♦ Mycoplasmas, Chlamydiae and Rickettsiae ♦

**PART IV VIROLOGY** ♦ General Properties of Viruses ♦ DNA Viruses ♦ RNA Viruses ♦ Hepatitis Viruses ♦ Miscellaneous Viruses ♦

**PART V MYCOLOGY** ♦ Medical Mycology ♦

**PART VI PARASITOLOGY** ♦ Protozoa ♦ Helminths ♦

**PART VII APPLIED**

**MICROBIOLOGY** ♦ Sterilisation and Disinfection ♦ Collection and Transport of Specimens ♦ Hospital-Acquired Infections ♦ Biomedical Waste Management ♦ Antimicrobial Stewardship ♦ Bacteriology of Water, Air, Milk and Food ♦ *Index*

2023

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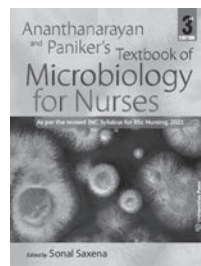
978-93-93330-57-4

₹ 450.00

#### Ananthanarayan and Paniker's Textbook of Microbiology for Nurses (Third Edition)

Sonal Saxena (Ed.)

Director Professor and Head, Department of Microbiology, Maulana Azad Medical College, New Delhi.



The third edition of *Ananthanarayan and Paniker's Textbook of Microbiology for Nurses* fulfils this requirement. Its focus on the needs of the nursing practitioner in India in the ever-changing and evolving face of microbiology is in tune with the recent revisions in the BSc Nursing syllabus with emphasis on applied microbiology, infection control and safety.

#### Special features:

- The content is compliant with the new BSc Nursing syllabus.
- It provides a concise treatment of General Microbiology, Immunity, Systematic Bacteriology, Virology, Parasitology and Mycology for understanding the means of transmission of diseases caused by various microorganisms, the human immune system's response to infections, methods of diagnosing and managing infections, and the mechanisms to control the spread of diseases.
- The syndromic approach adopted in bacteriology for providing the necessary clinical correlation; flow charts have been used effectively for the purpose.

- The section on infection control and patient safety covers new topics such as antimicrobial stewardship, patient safety indicators, incidents and adverse events and international patient safety goals.
- Focus on hospital environment safety and healthcare workers' safety from the perspective of nurses.
- Expanded coverage of infection control care bundles to emphasise the rise in healthcare-associated infections and the threat posed by antimicrobial resistance.
- Chapter navigation made easy with features such as 'At a Glance' and 'Learning Objectives' in the beginning; key points at the end provide a useful recap of concepts.
- Nursing tips and nursing protocols included where relevant to help translate theory to bedside clinical application.
- Self-assessment made easy with chapter-end exercises comprising comprehension and multiple-choice type questions.

**Contents: Part I: General Microbiology** ♦ A Historical Introduction to Microbiology ♦ Morphology of Bacteria ♦ Growth and Cultivation of Bacteria ♦ Microscopy and Staining ♦ Laboratory Methods for Identification of Bacteria ♦ Sterilisation and Disinfection ♦ **Part II: Immunology** ♦ Infection and Immunity ♦ An Overview of the Structure and Functions of the Immune System ♦ Antigen, Antibody and Complement ♦ Antigen–Antibody Reactions ♦ Hypersensitivity ♦ Vaccine and Immunisation ♦ **Part III: Systematic Bacteriology** ♦ Skin and Soft Tissue Infections ♦ Anaerobic Infections ♦ Tuberculosis and Leprosy ♦ Bacteria Causing Urinary Tract Infections ♦ Bacteria Causing Respiratory Tract Infections ♦ Bacteria Causing Meningitis ♦ Bacteria Causing Gastrointestinal Tract Infections ♦ Enteric Fever ♦ Bacteria Causing Sexually Transmitted Infections ♦ Zoonotic Bacterial Infections ♦ Miscellaneous Bacterial Infections ♦ **Part IV: Virology** ♦ General Properties of Viruses ♦ Hepatitis Viruses ♦ HIV and AIDS ♦ Polio and Rabies ♦ Exanthematous Fevers ♦ Viral Gastroenteritis, Arboviruses and Emerging Viral Infections ♦ **Part V: Parasitology** ♦ Protozoa ♦ Helminths ♦ **Part VI: Mycology** ♦ Medical Mycology ♦ **Part VII: Infection Control and Patient Safety** ♦ Emerging and Re-emerging Infections and Control Programs ♦ Environmental Microbiology ♦ Healthcare-associated Infections

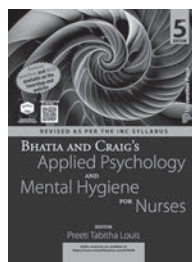
♦ Isolation Precautions and the Use of Personal Protective Equipment (PPE) ♦ Biomedical Waste Management ♦ Sample Collection and Transport ♦ Antimicrobial Resistance and Stewardship ♦ Patient Safety Indicators ♦ Incidents and Adverse Events ♦ International Patient Safety Goals ♦ Hospital Environment Safety ♦ Healthcare Worker Safety ♦ *Answers to MCQs ♦ Index*

**2022****328 pp.****Paperback****978-93-93330-00-0****₹ 670.00**

### **Bhatia and Craig's Elements of Psychology and Mental Hygiene for Nurses in India (Fifth Edition)**

*Preeti Tabitha Louis (Ed.)*

Lecturer of Psychology, Department of Behavioural Sciences, College of Nursing, Christian Medical College and Hospital, Vellore.



Online resources  
available

The foremost aims of this fifth edition of Bhatia and Craig's Applied Psychology and Mental Hygiene for Nurses were to effectively integrate the core concepts covered in this classic textbook with the more contemporary topics in the field and to adapt this book to the new syllabus for Applied Psychology prescribed by the Indian Nursing Council (INC). Every chapter has been revised thoroughly, and the content has been organised according to relevant headings and the learning objectives outlined in the new syllabus. The charts, tables, and schematic diagrams included in this book are designed to enhance comprehension and retention. The role of nurses has been emphasised under each topic, and suitable examples have been included. Two new chapters have been added—Application of Soft Skills and Self-empowerment. The language and presentation too have been modified, keeping in mind the needs of the nursing student in India. Critical thinking exercises have been

prepared to illustrate the relevance of important psychological concepts in the context of nursing.

#### Special features:

- New and updated definitions have been provided
- All chapters have been modified and updated to meet the requirements of the new syllabus for first-year BSc Nursing students
- Two new chapters have been added—Application of Soft Skills and Self-empowerment
- More emphasis on the applications of psychology in the context of nursing
- Examples used throughout the book to illustrate the implications of various concepts on a nurse's role in patient care
- Concise and succinct coverage for better comprehension
- New flowcharts, figures, and tables included to help students prepare for their exams
- Critical thinking exercises to enhance the nurse's problem-solving skills
- Summaries and revision questions at the end of every chapter modified in accordance with the examination pattern

Online resources available at [www.universitiespress.com/APMHN](http://www.universitiespress.com/APMHN)

**Contents:** The Nature and Scope of Psychology ♦ Methods of Psychology ♦ 3 The Biological Basis of Behaviour ♦ Genetics and Behaviour ♦ The Nervous System ♦ The Sense Organs, Muscles and Glands ♦ Mental Health and Mental Hygiene ♦ Mental Illness—Symptoms, Causes and Treatment ♦ Ego Defence Mechanisms ♦ Frustration and Conflict ♦ Guidance and Counselling ♦ Developmental Psychology ♦ Psychology of Vulnerable Individuals ♦ Personality ♦ Attention and Perception ♦ Intelligence and Aptitude ♦ Learning ♦ Memory ♦ Thinking ♦ Motivation ♦ Emotions and Stress ♦ Attitudes ♦ Psychological Assessment and Tests ♦ Psychology of Groups ♦ Application of Soft Skills ♦ Self-Empowerment ♦ *Index*

2023

978-93-93330-58-1

324 pp.

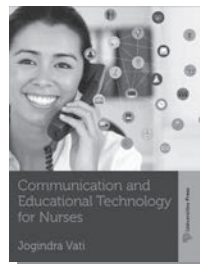
Paperback

₹ 595.00

## Communication and Educational Technology for Nurses

*Jogindra Vati*

Professor and Principal, SGHS College of Nursing, Mohali, India.



Nurse educators play an important role in developing the science of nursing education and preparing future nurse educators. Advances in technology and globalisation pose several challenges for nursing institutions. There is a need for competent nurse teachers who can teach and guide students and clients in any health care setting by applying various innovative methods of teaching—learning and educational media. This book presents clear, interesting, systematic, and thoroughly teachable material on communication and educational technology in nursing supported by suitable illustrations, diagrams and flowcharts. It is a comprehensive, simplified and evidence-based book for nursing students as well as the faculty, helping them to develop their competencies in the teaching—learning practice as nurse educators.

#### Salient features:

- Simple and lucid style of presentation
- Latest concepts in communication and educational technology
- Clear explanation of basic concepts of nursing education
- Chapter Outline and Competencies
- Numerous nursing-related examples self-explanatory figures, tables and boxes
- Important 'Key Points' at the end of the chapter
- Review questions—essay type, short answer and multiple choice questions
- Suggested Reading
- Glossary

**Contents:** *Preface ♦ Acknowledgements ♦ Review of Communication Process ♦ Interpersonal Relationships ♦ Human Relations ♦ Guidance and Counselling ♦ Nursing Education and Philosophies ♦ Teaching–Learning Process ♦ Methods of Teaching: Teacher-Controlled, Group-Controlled, and Action-Oriented ♦ Teacher-Training and Learner-Controlled Teaching Methods ♦ Clinical Teaching Methods ♦ Educational Technology and Nursing ♦ Educational Media: Audio–Visual Aids, Graphic Aids, and Three-Dimensional Aids ♦ Educational Media—Print Aids, Projected Aids, Audio Aids and Computer ♦ Assessment and Evaluation ♦ Information, Education and Communication for Health ♦ Glossary ♦ Index*

**2018**                      **566 pp.**                      **Paperback**  
**978–93–86235–61–9**                      **₹ 925.00**

### **Essential Obstetrics: Textbook for Undergraduates**

*Asha Oumachigui, S Soundara Raghavan  
& S Habeebullah*

*See page 28*

### **K Bhasker Rao and NN Roy Chowdhury's Clinical Gynecology (Fifth Edition)**

*S Rathnakumar*

*See page 25*

### **Mudaliar and Menon's Clinical Obstetrics (Thirteenth Edition)**

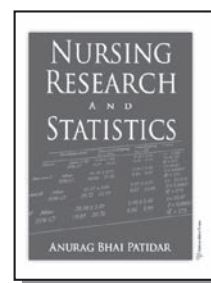
*T Radha Bai Prabhu (Ed.)*

*See page 30*

### **Nursing Research and Statistics**

*Anurag Bhai Patidar*

Lecturer, Bhopal Nursing College, Bhopal Memorial Hospital and Research Centre (Under Indian Council of Medical Research, Ministry of Health and Family Welfare, Govt. of India), India.



Research projects are essential for progress and advances in evidence-based nursing practice. This book focuses on the fundamentals of how to undertake and execute a research project and the use of statistics and statistical tools in analysing and interpreting the findings of the project. Using simple language, this book includes many tables, graphs and examples to help students grasp the main concepts and principles of research and statistics. The book also provides self-evaluation questions to enable students to check their understanding of the subject.

**Salient features:** Step-by-step instructions on how to plan, design and carry out research projects ♦ Real-life examples tailored to the Indian context ♦ Complete coverage of the Nursing syllabus for this subject ♦ Chapter objectives and detailed summary ♦ MCQs and short and long answer questions at the end of every chapter ♦ Distribution and probability tables for easy reference ♦ Previous years' questions papers; Online resources such as lecture slides are available at [www.universitiespress.com](http://www.universitiespress.com)

**Contents:** *Preface ♦ Acknowledgements ♦ Section A: Nursing Research ♦ Chapter 1: Research and the Research Process ♦ Introduction to Nursing Research ♦ Need for Nursing Research ♦ Definition of Research and Nursing Research ♦ Methods of Acquiring Knowledge: Problem-solving and the Scientific Method ♦ Characteristics of Good Research ♦ Evolution of Nursing Research in the West—Important Dates ♦ Evolution of Nursing Research in India—Important Dates ♦ Concept of Evidence-based Nursing Practice ♦ Ethics in Nursing Research ♦ Research Process: Quantitative Research ♦ Research Process: Qualitative Research ♦ Chapter 2: Research Problem/Question ♦ Definition of Terms ♦ Introduction to Research Problems ♦ Identification of*

the Research Problem ♦ Sources of Research Problems  
 ♦ Characteristics of a Good Problem Statement  
 ♦ Evaluation of the Research Problem ♦ Research Question ♦ Research Objectives ♦ Research Variables  
 ♦ Assumptions ♦ Limitations and Delimitations ♦ Hypothesis ♦ Characteristics of a Good Hypothesis ♦ Types of Hypotheses ♦ Hypothesis Testing ♦ Errors in Hypothesis Testing ♦ Chapter 3: Review of Literature  
 ♦ Introduction to Review of Literature ♦ Definition of Literature Review ♦ Purpose of Literature Review  
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 ♦ Theory, Research and Practice Relationship ♦ Classification of Theories ♦ Conceptual Model/Framework/Schemes ♦ Selecting the Appropriate Conceptual Framework ♦ Criteria for Evaluating Conceptual Models/Frameworks ♦ Systems Theory as a Framework ♦ Criticisms of Nursing Theories ♦ Chapter 6: Sampling Techniques ♦ Need for a Sample ♦ Characteristics of a Good Sample ♦ Definition of Key Terms ♦ Factors Influencing the Sampling Process ♦ Process of Sampling ♦ Types of Sampling Techniques ♦ Probability Sampling Techniques ♦ Non-probability Sampling Techniques ♦ Sampling Errors ♦ Chapter 7: Data Collection Tools and Techniques  
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 ♦ Introduction to Critiquing Research Articles ♦ Definition of terms ♦ Steps in Quantitative Research Critiquing ♦ Steps in Qualitative Research Critiquing ♦ Chapter 11: Research Proposals ♦ Introduction to Research Proposals ♦ Types of Proposals ♦ Writing a Research Proposal ♦ Budget Plan ♦ Action Plan ♦ Final Proof Reading and Editing ♦ Common Reasons for Proposal Rejection ♦ **Section B: Statistics** ♦ Chapter 12: Introduction to Statistics ♦ Introduction ♦ Basic Statistical Terminology ♦ Types of Statistical Methods ♦ Application and Scope of Statistics in Health ♦ Vital Health Statistics ♦ Types and Levels of Data and their Measurement ♦ Chapter 13: Measures of Central Tendency ♦ Introduction to Measures of Central Tendency ♦ Mean (Arithmetic) ♦ Median ♦ Mode ♦ Selecting the Appropriate Measure of Central Tendency ♦ Position of Measures of Central Tendency ♦ Chapter 14: Measures of Variability ♦ Introduction to Measures of Variability ♦ Range ♦ Interquartile Range ♦ Variance ♦ Standard Deviation ♦ Choosing the Appropriate Measure of Variability ♦ Chapter 15: Measures of Relationship ♦ Correlation: Meaning and Need ♦ Scatter Diagram Method ♦ Types of Correlation ♦ Correlation Statistics ♦ Simple Linear Regression ♦ Chapter 16: Parametric and Non-parametric Tests ♦ Introduction to Parametric and Non-parametric Tests ♦ Parametric Tests ♦ t-Test ♦ z-Test ♦ Analysis of Variance (ANOVA) ♦ ANCOVA ♦ Non-Parametric Tests ♦ Chi-square Test ♦ Sign Test ♦ Wilcoxon Signed Rank Test ♦ Mood's Median Test ♦ McNemar's Test ♦ Mann-Whitney U Test ♦ Fisher's Exact Test ♦ Kruskal-Wallis Test ♦ Chapter 17: Use of Computers for Data Analysis  
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2015  
978-81-7371-979-0

424 pp.

Paperback  
₹ 775.00

## OBSTETRICS AND GYNECOLOGY

### Antenatal and Intrapartum Fetal Surveillance

**Sir Sabaratnam Arulkumaran (Ed.)**

Professor Emeritus – St George's University of London; President, International Federation of Obstetrics & Gynecology (FIGO); formerly President, British Medical Association and Royal College of Obstetricians & Gynaecologists, UK.

**Jaydeep Tank (Ed.)**

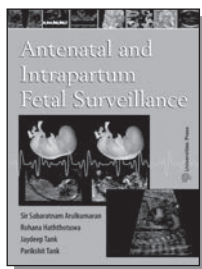
Consultant, Ashwini Maternity and Surgical Hospital, Center for Endoscopy and IVF; Consultant, Jupiter Hospital Fertility and IVF Clinic; Deputy Secretary FOGSI, Deputy Secretary, MOGS, Mumbai, India.

**Rohana Haththoutuwa (Ed.)**

Consultant, Obstetrics and Gynecology; Chairman, Ninewells Care Mother & Baby Hospital, Colombo, Sri Lanka.

**Parikshit Tank (Ed.)**

Consultant, Department of Obstetrics and Gynecology, Ashwini Maternity and Surgical Hospital, Mumbai, India.



Surveillance of the fetus is practised by obstetricians and midwives on a daily basis to prevent stillbirth and neonatal death. Yet, there is no specific book to cover this area of practice. *Antenatal and Intrapartum Fetal Surveillance* fills this gap – it covers the knowledge.

A comprehensive reference text, the book discusses the use of biochemical and ultrasound markers for screening of genetic, chromosomal and anatomical malformations. It also covers fetal movements, heart rate monitoring, Doppler blood flows, fetal blood sampling, fetal oxygen saturation and fetal ECG waveform analysis to diagnose hypoxia. Recent developments as well as advanced technologies for the future are also dealt with.

### Contents: Section A: Antepartum Surveillance

♦ Antenatal Fetal Surveillance: some for all, more for those at risk ♦ Screening and Diagnosis of Chromosomal and Genetic Abnormalities of the Fetus ♦ Screening and Diagnosis of Anatomical Abnormalities of the Fetus ♦ Fetal Growth ♦ Fetal Movements ♦ Antenatal Cardiotocography ♦ Amniotic Fluid Index ♦ Biophysical Profile ♦ Doppler Velocimetry ♦ **Section B: Intrapartum Surveillance** ♦ Intermittent Auscultation ♦ Admission CTG ♦ Electronic Fetal Monitoring in Labour: Definitions, Pathophysiology, Examples ♦ Uterine Contraction Monitoring in Labour: External and Internal ♦ Fetal Scalp Blood Sampling: Lactate, pH and Base Excess ♦ ST-analysis of the Fetal ECG ♦ Fetal Stimulation Tests ♦ Computerised CTG and ECG Analysis in Labour ♦ The INFANT Trial: A Prospective Randomised Controlled Trial of Decision Support for the Interpretation of Fetal Heart Rate Patterns during Labour ♦ Assessment of the Newborn for Markers of Asphyxia and the Outcome ♦ Medicolegal Aspects of Intrapartum Fetal Surveillance ♦ *Index*

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**Paperback**

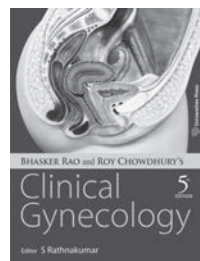
**978-81-7371-864-9**

**₹ 1,700.00**

### Bhasker Rao and Roy Chowdhury's Clinical Gynecology (Fifth Edition)

**S Rathnakumar (Ed.)**

Formerly Professor of Obstetrics and Gynecology, Institute of Social Obstetrics and Government Kasturba Gandhi Hospital for Women and Children, and Madras Medical College, Chennai, India.



Over the last decade, Gynecology has seen a dramatic increase in the diagnosis, techniques and management of many conditions affecting women. Investigative modalities like ultrasonogram, CT

and MRI have greatly improved the accuracy of diagnosis and improved management techniques, resulting in better outcomes. The current edition of *Clinical Gynecology* comprehensively deals with the recent developments in the field of gynecology, taking care to retain time-tested practices. Separate chapters on Chemotherapy and Radiology in gynecology highlight the current developments in these two dynamic fields. The recent MCI recommendations as to what should be included in the teaching curriculum have been incorporated to the extent possible. This book would be of immense benefit to students as well as practitioners.

#### Special features:

- Thirty-three chapters grouped in nine sections
- “At a Glance” at the beginning of each chapter
- Current trends in clinical gynecology covered
- Situation analysis with relevant questions provided for the various clinical conditions
- Chapters on Chemotherapy and Radiology deal with basics in treatment modalities to facilitate a clearer understanding of subsequent treatment protocol
- New guidelines of the MCI curriculum revision followed wherever applicable
- Long- and short-answer questions

**Contents:** **PART I: Approach to Gynecological Evaluation** ♦ Gynecological History and Physical Examination ♦ Clinical Evaluation and Symptomatic Approach in Gynecology ♦ **PART II: Basic Science in Gynecology** ♦ Anatomy of the Female Reproductive System ♦ Physiology of Menstruation and Ovulation ♦ **PART III: Paediatric and Adolescent Gynecology** ♦ Congenital Anomalies of the Genital Tract ♦ Adolescent Gynecological Problems ♦ **PART IV: Benign Gynecological Disorders** ♦ Abnormal Uterine Bleeding ♦ Benign Diseases of the Vulva and Vagina ♦ Benign and Premalignant Lesions of the Cervix ♦ Benign Diseases of the Uterus ♦ Benign Tumours of the Ovary and Fallopian Tube ♦ Pelvic Inflammatory Disease ♦ **PART V: Infertility, Menopause and Hormones in Gynecology** ♦ Infertility ♦ Polycystic Ovarian Syndrome ♦ Endometriosis ♦ Amenorrhea ♦ Menopause ♦ Hormones in Gynecology ♦ **PART VI: Premalignant and Malignant Diseases** ♦ Malignant Diseases of

the Vulva, Vagina and Fallopian Tube ♦ Malignant Lesions of the Cervix ♦ Malignant Neoplasm of the Uterus ♦ Malignant Ovarian Tumours ♦ Gestational Trophoblastic Disease ♦ Chemotherapy in Gynecology ♦ Radiotherapy in Gynecological Cancer ♦ **PART VII: Pelvic Organ Prolapse and Urogynecology** ♦ Uterovaginal Prolapse ♦ Disorders of the Urinary System ♦ Genitourinary Fistula ♦ **PART VIII: Imaging in Gynecology** ♦ Radiological Investigations in Gynecology ♦ Endoscopy in Gynecology ♦ **PART IX: Miscellaneous Topics** ♦ Operative Gynecology ♦ Pain in Gynecology ♦ Contraception ♦ *Appendix* ♦ *Key to MCQs* ♦ *Index*

2019

408 pp.

Paperback

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### Clinical Methods in Obstetrics and Gynecology: A Problem Based Approach (Second Edition)

**Asha Oumachigui (Ed.)**

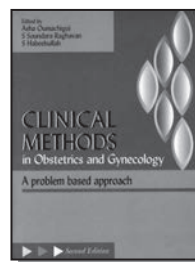
Formerly Director–Professor and Head, Department of Obstetrics and Gynecology, Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry, India.

**S Soundara Raghavan (Ed.)**

Professor, Department of Obstetrics and Gynecology, Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry, India.

**S Habeebullah (Ed.)**

Director–Professor and Head, Department of Obstetrics and Gynecology, Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry, India.



The new edition of this book re-emphasises the skills that students must acquire: of gathering information through history taking and physical

examination, and learning the art and science of interpreting data and selecting relevant investigations. The delivery pattern of health care for women needs to be woman-centered rather than technology-driven. The necessity of a book on clinical methods in the specialty of obstetrics and gynecology is absolute, since we can ill afford to rely on technology alone. This book will help budding doctors to appreciate and value the clinical approach.

This second edition has additional topics, updated knowledge and clear illustrations and takes into account the needs of students and practitioners.

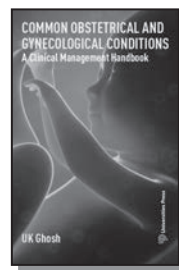
**Contents:** Communication with the patient and history-taking ♦ General physical examination ♦ Gynecologic and obstetric examination ♦ Care during pregnancy ♦ Vomiting in pregnancy ♦ Vaginal bleeding in early pregnancy ♦ Recurrent pregnancy loss ♦ Breathlessness during pregnancy ♦ Fever during pregnancy ♦ Abdominal pain during pregnancy ♦ Jaundice in pregnancy ♦ Vaginal bleeding in late pregnancy ♦ Swelling of feet during pregnancy ♦ Hypertension in pregnancy ♦ Convulsions during pregnancy ♦ Watery discharge per vaginum during pregnancy ♦ Prolonged labour ♦ Postpartum hemorrhage ♦ Postpartum collapse ♦ Fever in the postpartum period ♦ Postpartum depression ♦ Examination of a normal newborn ♦ The infant who does not breathe at birth ♦ The yellow baby ♦ The baby with convulsions ♦ The septic baby ♦ White discharge per vaginum ♦ Irregular vaginal bleeding ♦ Excessive vaginal bleeding ♦ Absence of menstruation ♦ Mass descending per vaginum ♦ Mass lower abdomen ♦ Acute pain lower abdomen ♦ Chronic problems of the breast ♦ Inability to conceive ♦ Helping clients choose contraception ♦ Strategies for skill learning ♦ *Bibliography* ♦ *Index*

|                          |                |                   |
|--------------------------|----------------|-------------------|
| <b>2006</b>              | <b>292 pp.</b> | <b>Paperback</b>  |
| <b>978-81-7371-775-8</b> |                | <b>₹ 1,250.00</b> |

### **Common Obstetrical and Gynecological Conditions: A Clinical Management Handbook**

**U K Ghosh**

Professor and Head, Department of Obstetrics and Gynecology, Swami Vivekanand Subharti University, Meerut, India.



This handbook is aimed at medical students and practitioners of obstetrics and gynecology who require a handy, easily portable, clinical manual that provides all the information they need to manage patients on a day-to-day basis. Covering the fundamentals of the subject, while ensuring a strong clinical orientation, this book includes all the obstetric and gynecological conditions frequently seen in the Indian context. It also provides many tables, flow charts and other visual elements, which enhance ease of reading and comprehension.

**Contents:** *Foreword by Sudha Prasad* ♦ *Foreword by Sunita Goyal* ♦ *Preface and Acknowledgements* ♦ *List of Abbreviations* ♦ Hypertension in Pregnancy ♦ Antepartum Hemorrhage ♦ Intrauterine Fetal Death ♦ Recurrent First and Second Trimester Pregnancy Loss ♦ Ectopic Pregnancy ♦ PROM and PPROM ♦ Preterm Labour ♦ Anemia in Pregnancy ♦ Vaginal Birth after Cesarean Section ♦ HIV in Pregnancy ♦ Pregnancy in Rh-negative Women ♦ Management of Normal Labour and Delivery ♦ Management of Breech Presentation ♦ Postpartum Hemorrhage ♦ Fetal Growth Restriction ♦ Gestational Trophoblastic Diseases (Hydatidiform/Vesicular Mole) ♦ Blood Transfusion in Obstetrics ♦ Abnormal Uterine Bleeding ♦ Fertility Assessment and Treatment (Infertility) ♦ Pelvic Organ Prolapse ♦ Pelvic Inflammatory Disease ♦ Polycystic Ovarian Syndrome ♦ Cervical Intraepithelial Neoplasia ♦ Carcinoma Cervix ♦ Endometrial Carcinoma ♦ Endometriosis ♦ Overactive Bladder Syndrome ♦ Ovarian Cysts/Adnexal Mass ♦ Commonly Used Drugs in Obstetrics and Gynecology ♦ *Index*

|                          |                |                   |
|--------------------------|----------------|-------------------|
| <b>2014</b>              | <b>244 pp.</b> | <b>Paperback</b>  |
| <b>978-81-7371-937-0</b> |                | <b>₹ 1,350.00</b> |

## Essential Obstetrics: Textbook for Undergraduates

**Asha Oumachigui (Ed.)**

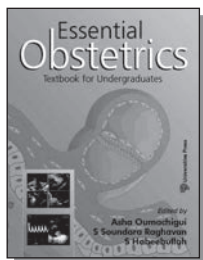
Formerly Director–Professor and Head, Department of Obstetrics and Gynecology, Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry, India.

**S Soundara Raghavan (Ed.)**

Professor, Department of Obstetrics and Gynecology, Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry, India.

**S Habeebullah (Ed.)**

Director–Professor and Head, Department of Obstetrics and Gynecology, Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry, India.



This textbook for undergraduates seeks to equip them with the essential skills required in obstetrics, covering care during pregnancy, delivery and its complications and wellbeing of the infant and the mother after the delivery.

### Special features:

- Exhaustive coverage of the core areas as relevant to the undergraduate syllabus
- Special focus on Indian conditions where there are socioeconomic aspects related to health care like poverty, domestic violence and gender discrimination. The book seeks to sensitise the student to these aspects
- Stress on evidence-based medicine and clinical evaluation to reduce the cost of seeking health care
- Section on demography and contraception is also tailored to Indian conditions

**Contents:** Obstetrics: An Overview ♦ Ethical Issues ♦ Gender Sensitisation ♦ Reproductive and Child Health Programme ♦ Communication and Counselling ♦ Elements of Reproduction and Embryology ♦ Development of the Fetus and Placenta ♦ Maternal Changes in Pregnancy ♦ Diagnosis of Pregnancy ♦ Antenatal Care ♦ Nutrition During Pregnancy ♦ Drugs in Pregnancy ♦ Imaging in Obstetrics ♦ Screening for Congenital Anomalies ♦ Assessment of Fetal Wellbeing ♦ Abortions ♦ Medical Termination of Pregnancy ♦ Ectopic Pregnancy ♦ Gestational Trophoblastic Disease ♦ Amniotic Fluid and its Abnormalities ♦ The Maternal Pelvis and the Fetus ♦ Physiology of Labour ♦ Mechanism of Normal Labour ♦ Conduct of Normal Labour ♦ Obstetric Analgesia and Anesthesia ♦ Prolonged Labour ♦ Occipitoposterior Position, Face and Brow Presentations ♦ Breech and Shoulder Presentations ♦ Multiple Pregnancy ♦ Induction of Labour ♦ Vaginal Operative Delivery ♦ Cesarean Section ♦ Complications of Third Stage of Labour ♦ Care of the Newborn ♦ Normal Puerperium ♦ Lactation and Breastfeeding ♦ Abnormal Puerperium ♦ Hyperemesis Gravidarum ♦ Hypertensive Disorders ♦ Antepartum Hemorrhage ♦ Preterm Labour ♦ Prelabour Rupture of Membranes ♦ Prolonged Pregnancy ♦ Rhesus Isoimmunisation ♦ Fetal Growth Restriction ♦ Anemia ♦ Heart Disease ♦ Respiratory Disorders ♦ Diabetes Mellitus ♦ Thyroid Disease ♦ Urinary Tract Infections ♦ Sexually Transmitted Infections ♦ Tropical Infections ♦ Epilepsy ♦ Psychiatric Disorders ♦ Diseases of the Liver ♦ Common Surgical Causes of Acute Abdomen in Pregnancy ♦ Gynecological Disorders Complicating Pregnancy ♦ Shock in Obstetrics ♦ Disseminated Intravascular Coagulation ♦ Demography, Population Control and Contraception ♦ Natural and Conventional Methods of Contraception ♦ Hormonal Contraceptives ♦ Intrauterine Contraceptive Devices ♦ Surgical Contraception ♦ Emergency Contraception

**2011**

**528 pp.**

**Paperback**

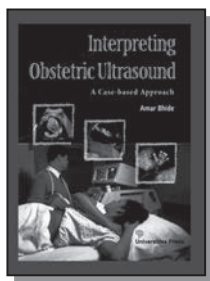
**978-81-7371-735-2**

**₹1,350.00**

## Interpreting Obstetric Ultrasound: A Case-based Approach

**Amar Bhide**

Consultant, Department of Obstetrics and  
Gynaecology, St George's Hospital, London, UK.



*Interpreting Obstetric Ultrasound: A Case-based Approach* contains 23 case scenarios dealing with the use of ultrasound in fetal medicine. The possible causes as well as approach to be followed for each of these scenarios are explained in detail. The cases are organised condition-wise rather than system-wise, since more than one system may be involved in a particular condition.

Comprehensively illustrated with numerous ultrasound scans obtained by the author during his many years of experience in this field, this book will greatly aid and guide practising obstetricians, ultrasonographers, radiologists and specialists in maternal–fetal medicine, as well as help candidates prepare for the RCR-RCOG Diploma examination/Fetal medicine Special Skills Module conducted by the Royal College of Obstetricians and Gynaecologists.

### Special features:

- Includes 23 real-life case studies
- Clinical approach
- Focus on interpretation of findings
- Comprehensively illustrated

**Contents:** Increased Nuchal Translucency ♦ Twin Gestation and Invasive Testing ♦ Anhydramnios ♦ Increased Amniotic Fluid Volume ♦ Echogenic Bowel ♦ Intracranial Cysts ♦ Mild Renal Pelvic Dilatation ♦ Intra-abdominal Cysts ♦ Positive Uterine Artery Doppler Screen ♦ Ventriculomegaly ♦ Enlarged Cisterna Magna ♦ Shortening of Long Bones ♦ Presence of a Soft Marker on an Anomaly Scan ♦ Suspected Fetal Growth Restriction ♦ Twin-to-Twin Transfusion Syndrome ♦ Monochorionic

Twin Pregnancy ♦ Red Cell Alloimmunisation ♦ Hydrops Fetalis ♦ Obstructive Uropathy ♦ Ultrasound Diagnosis of Placenta Previa ♦ Two-Vessel Cord ♦ Facial Cleft ♦ Irregular Heart Rhythm on Fetal Heart Auscultation ♦ *Index*

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For details, visit [www.universitiespress.com](http://www.universitiespress.com)*

**2009**

**144 pp.**

**Paperback**

**978-81-7371-645-4**

**₹ 1,250.00**

## Management of Labour, The (Fourth Edition)

**Sir Sabaratnam Arulkumaran (Ed.)**

Professor Emeritus – St George's University of London, former President, International Federation of Obstetrics & Gynecology (FIGO); British Medical Association and Royal College of Obstetricians & Gynaecologists, UK.

**Gita Arjun (Ed.)**

Former Senior Obstetrician & Gynaecologist, Director, E V Kalyani Medical Foundation, Chennai.

**Uma Ram (Ed.)**

Director and Lead Consultant, Seethapathy Clinic and Hospital, Chennai, All India Chair, AICC RCOG.



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available

Current knowledge of medicine is a vast ocean of new ideas and fresh data. New recommendations and guidelines are accumulating at a rate that the practitioner has difficulty keeping up with. Postgraduates in obstetrics must keep abreast with this knowledge, not only to face their examinations but also to be able to go forth in their career and provide the best support to the women under their care.

The fourth edition of *The Management of Labour* has been updated extensively to enable

the obstetrician to provide the safest care for the woman in labour. The book has been divided into clear, rational, practical, and well-illustrated sections that progress from the physiology of labour to the management of normal and complicated labour. New concepts in patient care such as enhanced recovery after cesarean (ERAC) have been included to make the book absolutely current. To help the obstetrician acquire balanced and comprehensive skills, immediate postpartum care, management of the normal and abnormal puerperium, the immediate care of the newborn in the labour room and neonatal resuscitation have also been included. To round off the book, respectful maternity care and the role of the birth companion are important issues that have been addressed in a dedicated chapter.

Important information has been presented in tables, algorithms, and 'key points' for easy recall.

Contributions from experts in the field make this book a practical and real-world guide to the practice of obstetrics. The focus is clearly on the parturient and the common problems faced in labour. Evidence-based recommendations present the obstetric caregiver with unambiguous and precise clinical guidelines.

The postgraduate student as well as the practitioner will find this book an invaluable companion in the practice of obstetrics.

**Contents:** **Section I: The process of labour** ♦ The physiology of labour ♦ Mechanics, Mechanism, and Stages of Labour ♦ **Section II: Intrapartum management** ♦ Respectful obstetric care and the role of a birth companion ♦ Management of the first and second stages of normal labour ♦ Management of the third stage of labour ♦ Monitoring labour: Partograph to Labour Care Guide ♦ Episiotomy: What does the evidence say ♦ Fetal surveillance in labour ♦ Labour analgesia ♦ Immediate postpartum monitoring and care (including postpartum collapse) ♦ **Section III: Intrapartum management of complicated labour** ♦ Management of abnormalities in the latent phase and the active first stage of labour ♦ Management of abnormalities in the second stage of labour ♦ Management of abnormalities in the third stage of labour: Postpartum hemorrhage and retained placenta ♦ Induction and augmentation of labour ♦ Identification and management of fetal distress ♦ Meconium-stained amniotic fluid: Assessment and management ♦ Management of labour in

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2025

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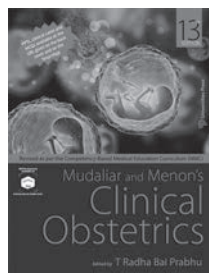
978-93-93330-82-6

₹ 1495.00

## Mudaliar and Menon's Clinical Obstetrics (Thirteenth Edition)

*T Radha Bai Prabhu (Ed.)*

Professor and HOD of the Department of Obstetrics and Gynaecology at Sri Muthu Kumaran Medical College Hospital and Research Institute, Chennai.



Online resources  
available

The thirteenth edition of *Mudaliar and Menon's Clinical Obstetrics* has been thoroughly revised in keeping with the recent advances in the fields of obstetrics and gynecology as well as the new Competency-Based Medical Education (CBME) curriculum introduced by the National Medical Council (NMC).

While topics such as prenatal diagnosis, abnormal labour, hypertensive disorders and MTP have been thoroughly updated in keeping with the most recent international guidelines, this edition also features new topics such as Zika and COVID infections. Epilepsy and asthma, shoulder dystocia and bronchial asthma have been covered in newly added chapters. A new chapter has also been added on medical ethics and medicolegal issues, as these are important aspects of medicine that should be taught to students of the subject so that they may learn to ethically practice medicine.

Each chapter opens with a mention of the CMBE competencies covered therein as well as a list of learning objectives that outline the knowledge and skills a student would acquire from that chapter. Evidence-based information is provided in accordance with the latest guidelines recommended by national and international bodies. A number of clinical photographs and USG images have been added to aid in the visualisation of concepts.

Examination is the most difficult challenge faced by a medical student. Keeping this in mind, essential points are presented in boxes, tables and algorithms for better comprehension and ease of memorisation. In most chapters, discussions on clinical scenarios have been added to help students to understand the clinical aspects and problem-based approach to various ailments. To encourage students to self-learn, the essay questions, short answer questions and MCQs at the end of each chapter have been extensively updated.

This book is a handy resource for undergraduate and postgraduate medical students as well as teachers.

#### Key features:

- All the chapters have been updated with adequate information and current developments.
- The chapter on hypertensive disorders in pregnancy has been updated with the most recent international guidelines on diagnosis and

management.

- Viral infections like Zika and COVID have been highlighted in the chapter on maternal infections.
- In the section on abnormal labour, the recent revisions made to the criteria for the diagnosis of abnormal labour by partograph (WHO, 2018) have been discussed.
- The chapter on MTP has been thoroughly revised with recent amendments to the MTP Act.
- The chapter on prenatal diagnosis has been revised thoroughly with illustrative clinical photographs and USG images.
- A number of new chapters have been added: Epilepsy and Bronchial Asthma Complicating Pregnancy, Shoulder Dystocia, Blood Transfusion in Obstetric Practice and Medical Ethics and Medicolegal Issues in Obstetrics.
- The content is evidence-based and clinically applicable.
- Information has been delivered in a systematic manner to help students to reproduce it easily.
- For better comprehension and ease of assimilation, crucial points are presented in boxes and tables.
- New tables, algorithms, photographs and USG images have been added. Detailed figures and line diagrams have been included to give visual clarity to concepts.
- National and international guidelines have been included where necessary.
- To aid self-learning and help students to prepare for their exams, self-assessment questions and MCQs have been suitably updated.
- Key points are presented at the end of each chapter for quick revision.
- In most chapters, clinical scenarios and their discussions have been added to help students to understand the exam pattern.
- The coverage of national initiatives on maternal and child health has been updated.

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Fertilisation of the Ovum and Development of the Placenta, Embryo and Fetus ♦ **Section II: Physiology of Pregnancy** ♦ Maternal Changes During Pregnancy ♦ Diagnosis of Pregnancy ♦ The Fetus in Normal Pregnancy ♦ Preconceptional and Antenatal Care ♦ Drugs in Pregnancy ♦ Imaging Techniques ♦ Antepartum Fetal Surveillance: Tests of Fetal Well-Being ♦ **Section III: Physiology of Labour and the Puerperium** ♦ Causation and Stages of Labour ♦ The Mechanism of Labour ♦ Conduct of Normal Labour ♦ Intrapartum Fetal Surveillance ♦ Induction of Labour ♦ Normal Puerperium ♦ **Section IV: Complications of Pregnancy** ♦ Hyperemesis Gravidarum ♦ Miscarriage (Abortion) ♦ Ectopic Pregnancy ♦ Hydatidiform Mole (Vesicular Mole) ♦ Antepartum Hemorrhage—Abruptio Placentae ♦ Placenta Previa ♦ Preterm Labour ♦ Fetal Growth Restriction ♦ Prolonged Pregnancy (Post-Term Pregnancy) ♦ Multiple Pregnancy ♦ Rh-Isoimmunisation ♦ **Section V: Diseases Complicating Pregnancy** ♦ Anemia Complicating Pregnancy ♦ Hypertensive Disorders of Pregnancy ♦ Diabetes Complicating Pregnancy ♦ Diseases of the Cardiovascular System ♦ Liver and Gastrointestinal Disorders Complicating Pregnancy ♦ Respiratory Diseases Complicating Pregnancy—Tuberculosis and Bronchial Asthma ♦ Maternal Infections During Pregnancy ♦ Diseases of the Urinary System Complicating Pregnancy ♦ Epilepsy Complicating Pregnancy ♦ Tumours of the Uterus and Adnexae Complicating Pregnancy ♦ Surgical Emergencies Complicating Pregnancy ♦ **Section VI: Abnormal Labour** ♦ Abnormal Fetal Position and Presentations (Occipitoposterior Position, Face and Brow Presentations) ♦ Transverse Lie/Oblique Lie/Unstable Lie ♦ Breech Presentation and Compound Presentation ♦ Shoulder Dystocia and Umbilical Cord Prolapse ♦ Abnormal Labour and Dystocia Due to Anomalies of the Expulsive Force ♦ Cephalopelvic Disproportion (CPD) and Obstructed Labour ♦ Abnormalities of the Reproductive Tract ♦ Complications of the Third Stage of Labour ♦ Injuries to the Parturient Canal ♦ **Section VII: Postpartum Management** ♦ Puerperal Infection and Other Postpartum Complications ♦ **Section VIII: The Newborn and Neonatal Problems** ♦ Resuscitation and Examination of the Newborn ♦ Feeding of the Newborn and Immunisation ♦ Respiratory Distress and Neonatal Sepsis ♦ Neonatal Jaundice ♦ Neonatal Problems and Their Management ♦ **Section IX: Obstetric Operations and procedures**

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## Obstetrics and Gynecology for Postgraduates (Volume I) (Third Edition)

*Sir Sabaratnam Arulkumaran (Ed.)*

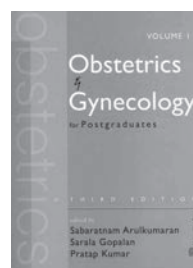
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*Pratap Kumar (Ed.)*

Professor, Department of Obstetrics and Gynecology, Kasturba Medical College, Manipal, India.



*Obstetrics and Gynecology for Postgraduates Volume I* has been popular among postgraduate students, who refer to it as the 'three author' book. Volume I is devoted to Obstetrics. It contains 40 chapters, written by authors, experts in their field, drawn from premier medical institutions

in India, Malaysia and the United Kingdom. There have been startling advances in the field of obstetrics and gynecology since the 1960s, when Ian Donald pioneered the use of ultrasound in obstetrics and gynecology, followed by *in vitro* fertilisation in the 1970s by Steptoe and Edwards. Since the publication of the Second Edition, there have been significant developments in terms of new hormones and newer types of operative procedures. Protocols and guidelines have been evolved, resulting in safe practice. This book enables the reader to keep up with recent advances and current practices. It synthesises recently available, acceptable and appropriate management in different settings. The aim is to enable postgraduates and clinicians to provide the best care in women's health. Brought out with more pictures, the book has a new layout and an easily readable type setting.

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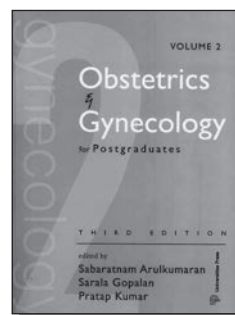
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**Pratap Kumar (Ed.)**

Professor, Department of Obstetrics and Gynecology, Kasturba Medical College, Manipal, India.



*Obstetrics and Gynecology for Postgraduates Volume II* has been popular among postgraduate students, who refer to it as the 'three author' book. Volume II is devoted to Gynecology. It contains 40 chapters, written by authors, experts in their field, drawn from premier medical institutions in India, Pakistan, Malaysia and the United Kingdom.

There have been startling advances in the field of obstetrics and gynecology since the 1960s, when Ian Donald pioneered the use of ultrasound in obstetrics and gynecology, followed by *in vitro* fertilisation in the 1970s by Steptoe and Edwards.

Since the last edition, there have been significant developments in terms of new hormones and newer types of operative procedures. Protocols and guidelines have been evolved, resulting in safe practice.

This book enables the reader to keep up with recent advances and current practices. It

synthesises recently available, acceptable and appropriate management in different settings. The aim is to enable postgraduates and clinicians to provide the best care in women's health.

Brought out in a new format, with more pictures, the book has a new lay-out and an easily readable type setting.

**Contents:** Malformations of the Female Genital System ♦ Adolescent and Pediatric Gynecological Problems ♦ Amenorrhea ♦ Sexual Ambiguity—Intersex Disorders ♦ Polycystic ovary syndrome ♦ Management of Menorrhagia ♦ Infertility ♦ Endometriosis ♦ Current trends in the early diagnosis and treatment of tubal pregnancy ♦ Uterovaginal prolapse ♦ Reproductive Tract Infections ♦ Epidemiology of Malignancies in the Reproductive Age Group ♦ Hormone Replacement Therapy in Women ♦ Stress Urinary Incontinence ♦ Urinary and Fecal Incontinence in Women ♦ Gestational Trophoblastic Diseases ♦ Benign Lesions of the Cervix and Uterus ♦ Pathology and Management of Cervical Intraepithelial Neoplasia (CIN) Lesions of the Cervix ♦ Diagnosis and Management of Early Cervical Cancer ♦ Carcinoma of the Endometrium ♦ Premalignant and Malignant Lesions of the Vulva ♦ Malignant Epithelial Ovarian Tumours ♦ Role of Chemotherapy in Epithelial Ovarian Cancers ♦ Radiotherapy in Gynecology ♦ Screening for Gynecological Cancers ♦ Palliative Care for Patients with Gynecological Cancers ♦ Assisted Reproductive Technology ♦ Gynecological Operative Endoscopy—Indications and Limitations ♦ Prevention and Treatment of Urinary Tract Injuries in Gynecological Surgery ♦ Breast and the Gynecologist ♦ GnRH Analogues in Gynecology ♦ Prostaglandins ♦ Genetics in Infertility and Prenatal Diagnosis ♦ Induced Abortion ♦ Recent Trends in Contraceptive Technology ♦ Hormonal Contraceptives: Current Problems and Developments ♦ Male and Female Sterilisation ♦ Fibroid Uterus ♦ Chronic Pelvic Pain ♦ Misoprostol in Obstetrics and Gynecology ♦ *Index*

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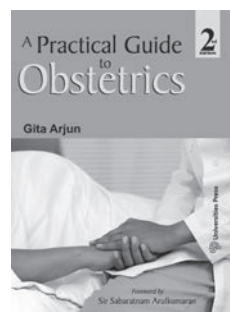
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## Practical Guide to Obstetrics, A (Second Edition)

**Gita Arjun**

Former Director of E V Kalyani Medical Centre,  
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The second edition of *A Practical Guide to Obstetrics* is an encyclopedia of obstetrics and an excellent reference book for practising obstetricians and midwives in India. This book presents the most up-to-date information of practical relevance in a crisp and reader-friendly style.

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Consultant Obstetrician and Gynecologist, Breach Candy, Bhatia General and Jagjivanram Railway Hospitals, Mumbai, India.

**Vinita Salvi (Ed.)**

Professor, Department of Obstetrics and Gynecology, Seth G S Medical College and KEM Hospital, Mumbai, India.



This volume is a step towards familiarising the obstetrician and gynecologist with the challenges of endocrine and menstrual disorders, precocious or delayed sexual development, genetic disorders and other problems in adolescence. Suitable management strategies are also suggested.

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**Duru Shah (Ed.)**

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Professor Emeritus – St George's University of London; President, International Federation of Obstetrics & Gynecology (FIGO); formerly President, British Medical Association and Royal College of Obstetricians & Gynaecologists, UK.

*H M L Jenkins (Ed.)*

Consultant and Medical Director, Derby City General Hospital, Derby, UK.



The presence of asphyxia in the antenatal period has an effect on events during labour and immediately after that. In this volume, current and potential methods of identifying and assessing perinatal asphyxia are discussed along with Doppler velocimetry, fetal heart rate monitoring, pulse oximetry and biochemical measurements. The problems in developing countries and risk management which may help to prevent recurrences are also discussed.

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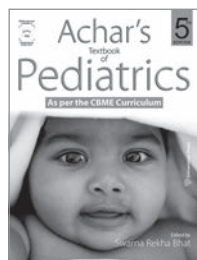
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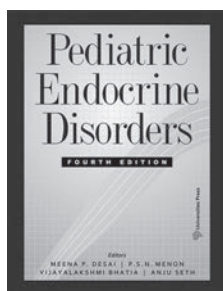
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Meena P Desai; P. S. N Menon; Vijayalakshmi Bhatia; Anju Seth (Eds.)



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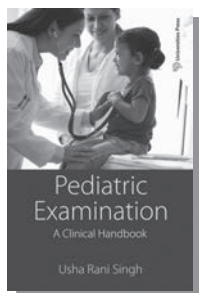
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Usha Rani Singh

Professor of Pediatrics, MAHSA University College, Malaysia.



This book has been developed for undergraduate medical students. It may also aid healthcare practitioners handling pediatric cases.

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- Simple language so that the students whose primary language is not English may also benefit from it.
- Bulleted text for a clear and crisp presentation.
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- A separate section devoted to detailed history-taking for adolescents, as an entirely different approach is needed for them.

**Contents:** *Preface* ♦ *Acknowledgement* ♦ *Introduction* ♦ *History Taking* ♦ *Examination Techniques* ♦ *General Examination* ♦ *Examination of the Respiratory System*

♦ *Examination of the Abdomen* ♦ *Examination of the Cardiovascular System* ♦ *Examination of the Nervous System* ♦ *Musculoskeletal Examination* ♦ *Examination of Newborns and Neonates* ♦ *Developmental Assessment* ♦ *Annexure: Biochemical parameters and ready reference values* ♦ *Index*

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## PHARMACY

### Ananthanarayan and Paniker's Textbook of Microbiology (Thirteenth Edition)

Sonal Saxena (Ed.)

See page 15

### Analytical Chemistry

G L David Krupadanam

Formerly Professor of Organic Chemistry,  
Department of Chemistry, University College of  
Science, Osmania University, Hyderabad, India.

D Vijaya Prasad

Reader and Head, Department of Chemistry,  
New Government Degree College, Khairatabad,  
Hyderabad, India.

K Varaprasad Rao

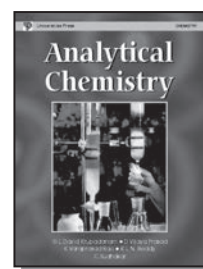
Reader in Chemistry, New Science College, Ameerpet,  
Hyderabad, India.

K L N Reddy

Lecturer, New Government Degree College,  
Khairatabad, Hyderabad, India.

C Sudhakar

Lecturer in Chemistry, New Government Degree  
College, Khairatabad, Hyderabad, India.



This book deals with the principles and applications of analytical chemistry, and is useful for B.Sc. chemistry students and those working in analytical research laboratories of drug, pesticide and other chemical industries. The topics discussed include the procedures to be followed in analytical work, solvent extraction as a technique in the isolation and purification of compounds, and chromatographic techniques (TLC, column, paper, ion-exchange, and HPLC) that are used for identification, purification, quantitative analysis and for monitoring the progress of reactions.

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**Chemistry of Natural Products:  
A Unified Approach**  
(Second Edition)

*N R Krishnaswamy*

*See page 1*

**Chemistry of Natural Products:  
A Laboratory Handbook**  
(Second Edition)

*N R Krishnaswamy*

*See page 1*

**Textbook of Pharmacology: An  
Integrated Approach**

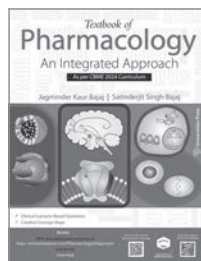
NEW

*Jagminder Kaur Bajaj*

Professor and Head, Department of Pharmacology at  
Punjab Institute of Medical Sciences, Jalandhar

*Satinderjit Singh Bajaj*

Medical Superintendent and DNB Coordinator at  
S.B.L.S. Civil Hospital, Jalandhar



Online resources  
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*Textbook of Pharmacology – An Integrated Approach* offers a fresh, student-focused resource aligned with the CBME 2024 curriculum. Emphasizing clinical relevance and interdisciplinary learning, it integrates anatomy and physiology within pharmacology for seamless understanding. Rich with flowcharts, mnemonics, and visual concept maps, the book simplifies drug classification and aids rapid revision. Scenario-based MCQs, clinical reasoning questions, and evidence-based management strategies foster critical thinking. A dedicated AETCOM chapter addresses ethics, patient rights, and professional values—making this an ideal guide for today's medical learners.

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Arthritis ♦ Histamine and Antihistaminics ♦ Drugs for the Management of Migraine ♦ **V Drugs Acting on the Respiratory System** ♦ Drugs Used in Cough and Bronchial Asthma ♦ **VI Drugs Acting on the Kidneys** ♦ Diuretics ♦ **VII Drugs Acting on the Cardiovascular System** ♦ Drugs Modulating the Renin–Angiotensin–Aldosterone System (RAAS) ♦ Calcium Channel Blockers ♦ Antihypertensive Drugs ♦ Drug Therapy of Congestive Heart Failure (CHF) ♦ Drugs for Ischemic Heart Disease ♦ Drugs for Peripheral Vascular Disease (PVD) and Management of Shock ♦ Antiarrhythmic Drugs ♦ **VIII Drugs Affecting Blood** ♦ Coagulants and Anticoagulants ♦ Antiplatelet and Fibrinolytic Drugs ♦ Hypolipidemic Drugs ♦ Hematinics ♦ **IX Drugs Affecting the Endocrine System** ♦ Anterior Pituitary Hormones ♦ Drugs for Thyroid Disorders ♦ Insulin and Antidiabetic Drugs ♦ Corticosteroids ♦ Female Sex Hormones and Antagonists ♦ Hormonal Contraceptives ♦ Drugs Acting on the Uterus ♦ Male Sex Hormones and Their Analogues ♦ Drugs for Infertility and Erectile Dysfunction ♦ Drugs for Osteoporosis ♦ **X Chemotherapeutic Drugs** ♦ General Principles of Chemotherapy ♦ Antimicrobial Agents (AMAs) ♦ Drugs Used in UTIs and STDs ♦ Antitubercular and Antileprotic Drugs ♦ Antifungal Drugs ♦ Antiviral Drugs ♦ Antiretroviral Drugs ♦ Antimalarial Drugs ♦ Antiamoebic Drugs ♦ Anthelmintics ♦ Anticancer Drugs ♦ **XI Drugs Acting on the Gastrointestinal System** ♦ **Drugs for Diarrhea, IBD, and Constipation** ♦ Antiemetic and Prokinetic Drugs ♦ Drugs for Acid Peptic Diseases ♦ **XII Miscellaneous Topics** ♦ Immunomodulator Drugs ♦ Toxicology ♦ Drugs Used in Dermatological Conditions and Germicidal Drugs ♦ Evidence-Based Medicine and New Drug Development ♦ **XIII Applied Pharmacology** ♦ Pharmacovigilance ♦ Practical Pharmacology: Essential Drugs, DPL, Legal Aspects ♦ Practical Pharmacology – Prescriptions, Prescription Errors, P-Drug, Dosage Calculation and Drug Interactions ♦ **XIV AETCOM** ♦ Attitude, Ethics, and Communication

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## Textbook of Pharmacology (Second Edition)

**Jagadish Prasad**

Formerly Professor and Head of the Department of Pharmacology; Principal, Kakatiya Medical College, Warangal, India.



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Pharmacology is one of the fast-growing branches of medical science. This book deals with both basic information on the subject of Pharmacology as well as advanced aspects and pharmacological approaches for drug treatment of clinical conditions. Latest advancements in pharmacology during the recent past—development of newer drugs for diabetes mellitus (newer insulins, GLP-1 analogs, DPP-4 inhibitors, SGLT-2 inhibitors), anti-TB drugs (bedaquilin), additional generations of cephalosporins, newer antimalignancy drugs (monoclonal antibodies), and newer anti-HIV drugs (NNRTIs and protease inhibitors) have been incorporated in the respective chapters. The book provides comprehensive information about drugs, including the pharmacokinetics, pharmacodynamics, clinical and diagnostic aspects of disease conditions, therapeutic indications, adverse reactions, and drug interactions. This second edition will serve as a basic textbook for undergraduate medical students and those preparing for postgraduate entrance examinations.

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**Contents:** *Preface to Second Edition* ♦ *Preface to First Edition* ♦ *Acknowledgements* ♦ **SECTION I: General Pharmacology** ♦ Historical Aspects and Introduction, Dosage Forms, and Drug Delivery Systems ♦ Pharmacokinetics—Drug Absorption, Distribution, Metabolism, and Elimination ♦ Pharmacodynamics—Mechanism of Drug Action, Factors Modifying Drug Effects, Therapeutic Drug Monitoring, Dose–Response Relationship ♦ Adverse Drug Reactions, Drug Interactions, and Drug Assay ♦ Drug Usage, Essential Drug Concept, and Drug Development ♦ **SECTION 2: Drugs Acting on Autonomic Nervous System** ♦ General Considerations of Autonomic Nervous System and Neurohumoral Transmission ♦ Adrenergic System and Adrenergic Drugs ♦ Adrenergic Blocking Drugs ♦ Cholinergic System and Cholinergic Drugs ♦ Anticholinergic Drugs and Drugs Acting on Autonomic Gangli ♦ **SECTION 3: Drugs Acting on Cardiovascular System** ♦ General Considerations and Antihypertensive Drugs ♦ Ischemic Heart Disease (IHD) and Treatment of Angina Pectoris ♦ Drugs for Congestive Heart Failure ♦ Drugs Used in Cardiac Arrhythmias ♦ **SECTION 4: Drugs Acting on Kidney** ♦ Diuretics ♦ **SECTION 5: Drugs Acting on Central Nervous System** ♦ Organization and Functioning of Central Nervous System and Central Neurotransmitters, Sedatives, and Hypnotics ♦ General Anesthetics, Skeletal Muscle Relaxants, and Local Anesthetics ♦ Therapeutic Approaches to Neurodegenerative and Movement Disorders ♦ Drug Treatment of Psychotic Disorders ♦ Drug Treatment of Epileptic Disorders ♦ Opioid Analgesics ♦ Nonsteroidal Anti-inflammatory Drugs (NSAIDs) and Drugs for Rheumatoid Arthritis and Gouty Arthritis ♦ The Alcohols and Drugs of Abuse ♦ **SECTION 6: Autacoids** ♦ Histamine, H<sub>1</sub> Antagonists, 5-Hydroxytryptamine (5-HT), and 5-HT Agonists and Antagonists ♦ Ergot Alkaloids, Eicosanoids, and Vasoactive Peptides ♦ **SECTION 7: Chemotherapeutic Agents** ♦ General Considerations of Antibiotics, Sulfonamides, Trimethoprim, Quinolones, and Urinary Antiseptics and Analgesics ♦ Penicillins, Cephalosporins, the Beta-lactam Antibiotics, and Miscellaneous Antibiotics ♦ Aminoglycosides ♦ Tetracyclines and Chloramphenicol ♦ Macrolides, Ketolides, Clindamycin, Streptogramins, Oxazolidinones,

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## Drugs

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**D Vijaya Prasad**

Reader and Head, Department of Chemistry,  
 New Government Degree College, Khairatabad,  
 Hyderabad, India.

**K Varaprasad Rao**

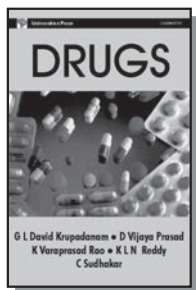
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**K L N Reddy**

Lecturer, New Government Degree College,  
Khairatabad, Hyderabad, India.

**C Sudhakar**

Lecturer in Chemistry, New Government Degree  
College, Khairatabad, Hyderabad, India.



Drugs have played a central role in the progress of human civilization. There are many important stages before a compound is used as a drug to treat a disease. The first stage is drug discovery; the second stage is the manufacture; and the third stage is the formulation of the drug in the form of tablets, capsules, injections and solutions. Some drugs like penicillin have been discovered quite accidentally, while some plant-derived drugs have been known to man since very early times; for example, quinine, ephedrine, cocaine, and morphine. This book deals with the historical aspects of the development and use of drugs, vitamins, hormones; their classification, synthesis and formulation; and the general principles of drug actions. The pharmacokinetics, the interaction of drugs in the targeted receptor, and mode of drug synthesis is explained in detail.

**Contents:** Introduction ♦ Pharmacodynamic agents ♦ Vitamins, hormones, synthetic and natural drugs ♦ Formulation of drugs ♦ *Bibliography* ♦ *Glossary* ♦ *Index*

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### **Experimental Pharmacology** (Second Edition)

**M C Prabhakar**

Formerly Senior Professor and Head, Department  
of Pharmacology, Sri Vishnu College of Pharmacy,

Bhimavaram, India.



This book is a unique compendium of experiments on drug response patterns. Students can easily understand the essential theoretical principles of the behaviour of drug agents by analyzing the results. Keeping Indian conditions in mind, locally available material has been used. In this revised second edition, a new experimental animal, the chick, has been added.

**Contents:** Effect of Different Agonists on Blood Pressure Preparation ♦ New and Modified Techniques ♦ Thrills, Paradoxes and Chills ♦ Experiments on Rabbit ♦ Experiments on Chick ♦ Experiments on Cat ♦ Experiments on Guinea Pig ♦ Experiments on Dog ♦ Some Psychopharmacology Techniques ♦ Points to Remember ♦ Some Autonomic Drug Interactions in: I. Anesthetised Rat (Sets 1–18); II. Anesthetised Dog (Sets 19–33)

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### **Herbal Drug Technology** (Second Edition)

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*See page 2*

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**P K Warriar, V P K Nambiar & C Ramankutty**

*See page 3*

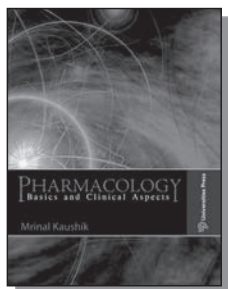
### **Introduction to Ayurveda, An**

**M S Valiathan**

*See page 4*

**Legacy of Caraka, The***M S Valiathan**See page 4***Legacy of Susruta, The***M S Valiathan**See page 5***Legacy of Vagbhata, The***M S Valiathan**See page 6***Pharmacology: Basics and Clinical Aspects***Mrinal Kaushik*

Senior Medical Officer (SMO), Central Health Service (CHS), Ministry of Health & Family Welfare, Government of India, posted at Dr Ram Manohar Lohia Hospital (Dr RMLH), New Delhi, India.



This book presents the fascinating but complex subject of Pharmacology in a concise and clinically relevant manner. It discusses Pharmacology from a perspective that can be readily identified by students in the context of actual clinical situations. Unlike most books, which tend to test the student's memory skills, the emphasis here is on a logic-based understanding of pharmacology. This would enable students to easily comprehend and, more importantly, to retain the information presented.

In this book, the different types of drugs, their mechanisms of action, rationale for drug interactions and side effects have been discussed in detail. In keeping with the highly dynamic nature of the subject and the vast clinical research underway, the latest and most widely accepted views are provided at every juncture.

**Contents:** Section 1: General Pharmacology—Routes of Drug Administration ♦ Drug Absorption and Distribution ♦ Drug Metabolism and Excretion ♦ Pharmacodynamics; Section 2: Drugs Acting on the Cardiovascular System—Antihypertensive Drugs ♦ Antiarrhythmic Drugs; Section 3: Drugs Acting on the Central Nervous System—Anaesthesia and Anaesthetic Agents ♦ Antiepilepsy Drugs ♦ Drug Therapy of Alzheimer's Disease ♦ Drug Therapy of Parkinson's Disease ♦ Antidepressant Drugs ♦ Neuroleptics ♦ Drug Therapy of Migraine; Section 4: Drugs Acting on the Renal System—Diuretic Agents; Section 5: Antimicrobial Drugs—Antibacterial drugs ♦ Antifungal Drugs ♦ Antitubercular Drugs ♦ Antimalarial Drugs ♦ Antiretroviral Drugs ♦ Anti viral Drugs ♦ Anthelmintic Drugs; Section 6: Drugs Acting on the Gastrointestinal System—Drug Therapy of Acid Peptic Disorders ♦ Antiemetic Drugs ♦ Drug-induced Hepatotoxicity; Section 7: Drugs Acting on the Respiratory System—Drug Therapy of Bronchial Asthma; Section 8: Anticancer Drugs—Cancer Chemotherapy Drugs; Section 9: Drugs Acting on the Metabolic and Endocrine Systems—Antidiabetic Drugs ♦ Antiobesity Drugs ♦ Drug Therapy of Hyperlipoproteinemias; Section 10: Neurotransmitters and Drugs Effective in Neurotransmission Defects—Noradrenergic and Adrenergic system ♦ Dopaminergic System ♦ Serotonergic System ♦ Cholinergic System; Section 11: Inflammation and Anti-inflammatory Drugs—Prostaglandins ♦ Corticosteroids ♦ Non-steroidal Anti-inflammatory Drugs (NSAIDs); Section 12: Effect of Concomitant Use of Multiple Drugs—Drug Interactions ♦ Answer key ♦ Index

**2011****978-81-7371-694-2****752 pp.****Paperback****₹ 1,095.00****Textbook of Clinical Pharmacy Practice, A (Second Edition)***G Parthasarathi (Ed.)*

Dean, Faculty of Pharmacy; Professor, Pharmacy Practice, J S S University, Mysore, India.

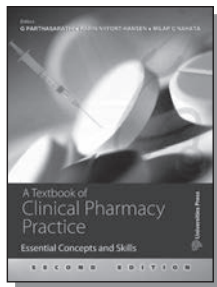
*Karin Nyfort-Hansen (Ed.)*

Research Pharmacist and Clinical Trial Co-ordinator, School of Medicine, The University of Adelaide, Australia.

*Milap C Nahata (Ed.)*

Professor and Chair of Pharmacy Practice and

Administration, College of Pharmacy, The Ohio State University, Columbus, USA.



This book aims to equip pharmacists with the knowledge and skills required to discharge their clinical pharmacy practice responsibilities in the Indian scenario. The focus is on providing information about how clinical pharmacy is practiced rather than what they need to know about drugs and therapeutics.

Completely revised and updated, this edition includes four new chapters: *Community Pharmacy Practice*, *Medication Use in Pregnancy and Lactation*, *Ethical Issues in Clinical Research* and *Poison Information*. These chapters address practice areas of great relevance to Indian pharmacists and result in a more comprehensive text overall.

A balanced mix of content, case studies, references and website links has been provided to make the topics as clear and interesting to the reader as possible. Additional appendices comprise laboratory reference values for adults and how to take medication history.

**Salient features:** New and revised chapters ♦ Additional tables, sample forms and appendices ♦ Learning objectives and key messages for every chapter ♦ New case studies, practice scenarios and exercises ♦ Updated glossary

**Contents:** *Foreword to the Second Edition ♦ Foreword to the First Edition ♦ Preface to the Second Edition ♦ Abbreviations ♦ Clinical Pharmacy in India ♦ Clinical Pharmacy: An International Perspective ♦ Community Pharmacy Practice ♦ Key Competencies for Clinical Pharmacy Practice ♦ Communication Skills for Pharmacists ♦ Patient Counselling ♦ Medication Adherence ♦ Essential Medicines and Rational Drug Use ♦ Adverse Drug Reactions and Pharmacovigilance ♦ Drug Interactions ♦ Interpreting Laboratory Data: Biochemistry and Haematology ♦*

*Interpreting Laboratory Data: Infectious Diseases ♦ Medication Review ♦ Ward Round Participation ♦ Paediatric Pharmacy Practice ♦ Clinical Pharmacy for Geriatric Patients ♦ Medication Use in Pregnancy and Lactation ♦ Critical Appraisal: How to Read a Research Paper ♦ Drug Information ♦ Poison Information ♦ Clinical Pharmacokinetics ♦ Therapeutic Drug Monitoring ♦ Continuing Professional Development ♦ Ethical Issues in Clinical Research ♦ Research in Clinical Pharmacy ♦ Drug Utilisation Evaluation ♦ Pharmacoepidemiology ♦ Medication Errors and Adverse Drug Events ♦ Pharmacoeconomics: Theory, Research and Practice ♦ Development of Therapeutic Guidelines ♦ Appendices ♦ Glossary ♦ Index*

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## Textbook of Industrial Pharmacognosy

Anusuya R Kashi

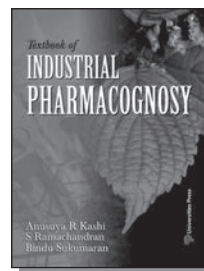
Department of Pharmacognosy, Vivekananda College of Pharmacy, Bengaluru, India.

S Ramachandran

Department of Pharmaceutical Chemistry, Mohamed Sathak AJ College of Pharmacy, Chennai, India.

Bindu Sukumaran

Department of Pharmacognosy, Vivekananda College of Pharmacy, Bengaluru, India.



This book is designed for undergraduate pharmacy students and provides both contemporary and comprehensive information on herbal drugs. The first three chapters—herbal drug industry, patents and intellectual property rights, and standardization of herbal drugs—are new, and have been culled from diverse sources. The book provides current information, and is organized in a format that enables students to focus on the important aspects.

**Contents:** Herbal drug industry ♦ Patents ♦ Standardization of herbal drugs ♦ Traditional systems of medicine ♦ Ayurvedic formulations ♦ Traditional drugs ♦ Isolation of compounds from natural sources ♦ Herbal cosmetics ♦ Enzymes ♦ Nutraceuticals ♦ Polyploidy ♦ Plant biotechnology ♦ Protoplast technology ♦ Enzyme biotechnology

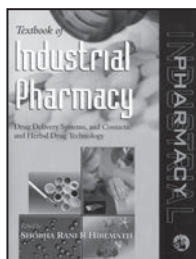
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**2012** **244 pp.** **Paperback**  
**978-81-7371-754-3** **₹ 895.00**

### **Textbook of Industrial Pharmacy: Drug Delivery Systems, and Cosmetic and Herbal Drug Technology**

*Shobha Rani R Hiremath (Ed.)*

Professor and Head, Department of Pharmacy and Practice, Al-Ameen College of Pharmacy, Bengaluru, India.



*Textbook of Industrial Pharmacy* is a pioneering effort that aims to bring together the three main specialties of pharmaceutical technology—drug delivery systems and industrial pharmacy, cosmetic technology and herbal drugs—in one book. With separate sections on these branches, this book provides detailed information about current techniques, as well as the concepts and principles on which they are based.

Targeted at final year B Pharm and first year M Pharm students, this book includes many step-by-step procedures, illustrations, and examples relating to drug delivery systems, optimisation and validation of pharmaceuticals, herbal drugs and products, cosmetics and cosmeceuticals. In addition, key points and self-assessment questions have been included at the end of every chapter.

**Special features:** Systematic and thorough coverage of syllabus topics ♦ Step-by-step procedures

♦ Illustrations that enhance understanding of text  
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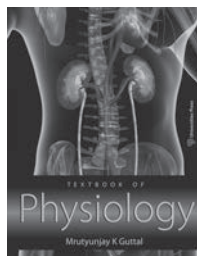
**2008** **464 pp.** **Paperback**  
**978-81-7371-639-3** **₹ 1,050.00**

## PHYSIOLOGY

### **Textbook of Physiology**

*Mrutyunjay Kumar Guttal*

Formerly Professor of Physiology, Department of Medical Education, Government of Karnataka, India.



Online resources  
available

This book has been developed for undergraduate MBBS students. It may also come to the aid of learners of allied medical sciences.

**Salient features:**

- Topics presented in a lucid language as—introduction, functional anatomy, elaboration of concepts and clinical/applied/pathophysiology.
- Numerous heads and subheads along with highlighted important terms to assist memorisation of topics and effective presentation during examination.
- Novel methods of explanation for easy understanding of complex principles and topics such as—Ionic Equilibrium and Resting Membrane Potential, CNS, Yoga, etc.
- Highlighted coloured boxes for clinical/applied/pathophysiology and current advances.
- 670 colour figures (illustrations, images, photographs, flow charts) and 137 tables (almost one figure/table in every page!) to make the text clear and more meaningful.
- Many unique illustrations and tables that have not appeared '....in any textbook so far'.
- 'At a Glance' at the beginning and 'Recap' at the end of each chapter.
- Colour boxes providing nuggets of information, tit-bits, snippets, notes, thought-provoking riddles and facts connected to human physiology.
- Question bank with short notes/essay-type questions and MCQs (with answers) to assist the student in self-assessment.

Online resources available at:  
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**Contents:** *Dedication ♦ Preface ♦ Special Acknowledgements ♦ Part I: General Principles and Cellular Basis of Medical Physiology ♦ Introduction to Physiology and its General Principles ♦ Body Fluids ♦ Cell Membrane as a 'Permeability Barrier' and Membrane Transport ♦ Ionic Equilibrium and Resting Membrane Potential ♦ Part II Neuromuscular Physiology ♦ Nerve: Structure and Function ♦ Skeletal Muscle Physiology ♦ Part III: Physiology of Haemopoietic System ♦ Blood: General Considerations, Plasma Proteins and Blood Groups ♦ Erythrocytes and Haemoglobin ♦ Platelets and Haemostasis ♦ Leucocytes and Immunity ♦ Part IV: Gastrointestinal Tract ♦ Knowing the Organisation of GIT ♦ Activities when Food is in the*

*Mouth ♦ Stomach ♦ Cooperative Activity of Exocrine Pancreas and Hepatobiliary System ♦ Secretory and Motor Functions of Intestine ♦ Digestion and Absorption of Nutrients ♦ Part V: Respiratory System ♦ Overview of the Respiratory System ♦ The Mechanism and Mechanics of Breathing ♦ Transfer and Transport of Respiratory Gases ♦ Regulation of Respiration ♦ Applied Physiology and Breathing in Extreme Situations ♦ The Scientific Basis of Yoga ♦ Part VI: Cardiovascular System ♦ Overview and Structural Organisation of CVS ♦ Properties of the Cardiac Muscle and ECG ♦ The Cardiac Pump ♦ Regulatory Mechanisms of Cardiovascular Function ♦ Regional Circulation ♦ Applied Physiology: CVS-Homeostasis and its Disturbances ♦ Part VII: Renal System ♦ Overview of the Organisation of the Renal System ♦ Renal System as an Excretory Organ ♦ Renal System as a Guardian of ECF ♦ Part VIII: Nervous System ♦ Significance and Design of Nervous system ♦ Somesthetic Sensory Nervous System ♦ Somatic Motor System ♦ Brainstem (Supraspinal) Integration of Sensory–Motor Functions ♦ Neural Integration of Visceral Functions ♦ Higher Functions of Nervous System ♦ Part IX: Special Senses ♦ The Eye and the Vision ♦ The Ear ♦ Chemical Senses ♦ Part X: Endocrine Physiology ♦ General Endocrinology ♦ The Thyroid gland ♦ The Endocrine functions of pancreas: Insulin, Glucagon ♦ Endocrine regulation of Calcium and Phosphate ♦ The Adrenal Gland: Adrenal Cortex and Medulla ♦ The Adrenal Gland: Adrenal Cortex and Medulla ♦ Part XI: Reproductive Physiology ♦ Overview of Male Reproductive System ♦ Female Reproductive system ♦ Fertilisation Pregnancy and Fetal Development ♦ Reference Sources for Further Reading ♦ Index*

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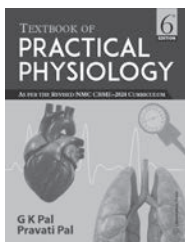
## **Textbook of Practical Physiology, 6th Edition**

**NEW****G K Pal**

Professor (Senior Scale), Department of Physiology,  
Jawaharlal Institute of Postgraduate Medical  
Education and Research (JIPMER), Puducherry

**Pravati Pal**

Professor (Senior Scale), Department of Physiology  
Jawaharlal Institute of Postgraduate Medical  
Education and Research (JIPMER), Puducherry



*Textbook of Practical Physiology* (6th Edition) continues its legacy as the most trusted guide for medical students in India and abroad. Extensively revised to align with the latest NMC CBME–2024 guidelines, it integrates applied and clinical physiology with step-by-step practical learning. Sections on Hematology, Human Experiments, and Clinical Examination have been thoroughly updated with new, original photographs demonstrating various techniques. New topics include energy cost of work, bicycle ergometry, arterial pulse tracing, carotid sinus reflex, venous flow and pressure, triple response, H reflex, physiologic blind spots, stereoscopic vision, eye dominance, visual sensations, mechanical stimulation of the eye, near point and accommodation, Purkinje–Sanson reflex, HRV, and BRS. Animal experiments have been refined and limited to essential learning. With new chapters on graphs, charts, spotters, and problem-solving, over 1300 viva questions, and enhanced illustrations in a modern four-colour design, this edition makes learning physiology clear, engaging, and exam-ready.

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Effect of Posture on Vital Capacity ♦ Pulmonary Function Tests and Spirometry ♦ Cardiopulmonary Resuscitation ♦ Body Composition Analysis, Assessment of BMR, and Energy Cost of Work ♦ **Cardiovascular System** ♦ Electrocardiography ♦ Examination of the Radial Pulse, Demonstration of Pulse Tracing, and Other Vascular Phenomena ♦ Measurement of Blood Pressure ♦ Effect of Posture on Blood Pressure and Heart Rate ♦ Effect of Exercise on Blood Pressure and Heart Rate ♦ Cardiac Efficiency Tests (Exercise Stress Testing): Treadmill and Master's Step Test ♦ **Nerve and Muscle** ♦ Nerve Conduction Study and Demonstration of H reflex ♦ Electromyography ♦ Mosso's Ergography, Study of Fatigue, and Use of Handgrip Dynamometer ♦ **Nervous System** ♦ Visual and Auditory Reaction Times ♦ Electroencephalogram ♦ **Autonomic Nervous System** ♦ Autonomic Function Tests ♦ Spectral Analysis of Heart Rate Variability ♦ Blood Pressure Variability and Baroreflex Sensitivity ♦ **Evoked Potentials** ♦ Brainstem Auditory Evoked Potential ♦ Visual Evoked Potential ♦ Somatosensory Evoked Potential ♦ Motor Evoked Potential ♦ **Special Senses** ♦ Perimetry and Demonstration of Blind Spot and Other Visual Phenomena ♦ Visual Acuity (Tests for Distant Vision and Near Vision) and Other Related Phenomena ♦ Colour Vision ♦ Hearing Tests including Audiometry, Localisation and Masking of Sounds ♦ Examination of Taste and Smell ♦ **Reproductive System** ♦ Semen Analysis ♦ Pregnancy Diagnostic Tests ♦ Birth Control Methods ♦ **Section III Clinical Examination** ♦ History Taking and General Examination ♦ Clinical Examination of the Respiratory System ♦ Clinical Examination of the Cardiovascular System ♦ Clinical Examination of the Gastrointestinal System ♦ Clinical Examination of the Nervous System I (Higher Functions and Cranial Nerves) ♦ Clinical Examination of the Nervous System II (Sensory System) ♦ Clinical Examination of the Nervous System III (Motor System including Reflexes) ♦ **Section IV Animal Experiments** ♦ **Experiments on Frog's Nerve and Muscle** ♦ Introduction to Animal Experiments and Appliances ♦ Nerve-Muscle Preparation ♦ Simple Muscle Twitch ♦ Effect of Temperature on Simple Muscle Twitch ♦ Effect of Increasing Strength of Stimuli on Muscle Contraction ♦ Effect of Two Successive Stimuli on Muscle Contraction ♦ Genesis of Tetanus ♦ Genesis of Fatigue ♦ Conduction Velocity of Nerves in Frogs ♦ **Experiments on Frog's Heart** ♦ Normal Cardiogram of Frog ♦ Effect of Temperature on Frog's Heart ♦ Effect of Stannius Ligatures on Frog's Heart

466 ♦ Properties of the Cardiac Muscle ♦ Effect of Stimulation of Vagosympathetic Trunk on Frog's Heart ♦ Perfusion of Frog's Heart and Effect of Drugs and Ions ♦ **Mammalian Experiments** ♦ Effect of Drugs and Ions on Isolated Mammalian Intestine ♦ Effect of Drugs on Mammalian Uterine Contraction ♦ Estrus Cycle in Rat ♦ **Section V: Graphs and Charts, Calculations and Problem-Solving Questions** ♦ Charts, Graphs, Spotters and Derived Questions ♦ Questions on Calculations ♦ Problem-Solving Questions ♦ Normal Values

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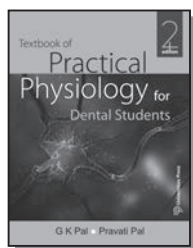
### **Textbook of Practical Physiology for Dental Students** (Second Edition)

**G K Pal**

Dean, JIPMER, Karaikal; Professor and Head,  
Department of Physiology, JIPMER, Puducherry,  
India.

**Pravati Pal**

Professor, Department of Physiology, JIPMER,  
Puducherry, India.



In recent years, rapid advancements have taken place in dental science. Though practice in dental science is limited to the diseases of teeth and oral cavity, this branch of medicine has direct or indirect link with all major systems of the body. Therefore, physiology as the mother subject in medicine has equal relevance in dentistry as applicable in modern medicine. This revised and enlarged edition of the practical book for dental students has all relevant human and clinical practicals, in addition to updating the practicals on hematology. The experiments and their principles as well as their theoretical aspects are presented in

a very precise but comprehensive form.

**Contents:** *Acknowledgements ♦ Preface to the Second Edition ♦ Preface to the First Edition ♦ General Introduction ♦ General Laboratory Instructions ♦ Section I: Hematology* ♦ Introduction to Hematology ♦ Collection of Blood Samples ♦ Estimation of Hemoglobin Concentration ♦ Determination of Hematocrit ♦ Study of the Compound Microscope ♦ Hemocytometry ♦ Total RBC Count ♦ Determination of Red Blood Cell Indices ♦ Total Leucocyte Count ♦ Preparation and Examination of Blood Smear ♦ Differential Leucocyte Count ♦ Arneth Count ♦ Absolute Eosinophil Count ♦ Determination of Erythrocyte Sedimentation Rate ♦ Determination of Blood Group ♦ Osmotic Fragility of Red Cells ♦ Determination of Bleeding Time and Coagulation Time ♦ Platelet Count ♦ **Section II: Human and Clinical Practicals** ♦ *General Principles of Clinical Examination ♦ General Examination ♦ Respiratory System* ♦ Stethography ♦ Clinical Examination of the Respiratory System ♦ Effect of Posture on Vital Capacity ♦ *Cardiovascular System* ♦ Electrocardiography ♦ Clinical Examination of the Radial Pulse ♦ Measurement of Blood Pressure ♦ Effect of Posture on Blood Pressure and Heart Rate ♦ Effect of Exercise on Blood Pressure and Heart Rate ♦ Clinical Examination of the Cardiovascular System ♦ *Nervous System* ♦ Clinical Examination of the Sensory System ♦ Clinical Examination of the Motor System ♦ Clinical Examination of the Cranial Nerves ♦ *Special Senses* ♦ Perimetry ♦ Visual Acuity ♦ Colour Vision ♦ Hearing Tests ♦ Examination of Taste and Smell ♦ **Section III: Amphibian Experiments** ♦ *Experiments on Frog's Nerve and Muscle* ♦ Appliances ♦ Nerve-Muscle Preparation ♦ Simple Muscle Twitch ♦ Effect of Temperature on Simple Muscle Twitch ♦ Genesis of Tetanus ♦ Genesis of Fatigue ♦ *Experiments on Frog's Heart and Blood Vessels* ♦ Normal Cardiogram of Frog ♦ Effect of Temperature on Frog's Heart ♦ Effect of Stannius Ligatures on Frog's Heart ♦ *Experiments on Frog's Nervous System* ♦ Postural Reflexes in the Frog ♦ *Index of Normal Values ♦ Bibliography ♦ Index*

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## SURGERY

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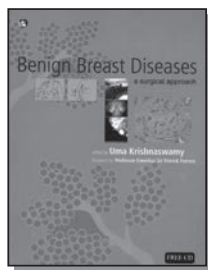


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### Benign Breast Diseases: A Surgical Approach

Uma Krishnaswamy (Ed.)

Senior Consultant Breast Surgeon, Apollo Hospitals, Chennai, India.



Benign breast disorders and diseases are commonly encountered in Indian clinical practice. Though reliable statistics are not available, the incidence of such disorders, in India, is thought to exceed that of carcinoma breast by a factor of ten or more.

Cultural inhibitions often prevent the Indian woman from seeking medical attention for a breast-related problem. Further, non-cancerous conditions are deemed unworthy of attention. Often, patients are subjected to needless surgical biopsies and unnecessary lifelong surveillance, with psychological consequences. And it seems a matter of luck that the patient receives appropriate management at all.

This is tragic, as the risk of breast cancer is generally lower among Indian women as a whole, as compared to women in the more developed countries. Yet the common problems of the breast have received scant attention so far, in developing countries.

*Benign Breast Diseases* was written to focus attention on these common problems, to enable the medical practitioner to distinguish the benign from the malignant condition.

**Special features:** A CD containing clinical and pathology images has been included ♦ The book is well illustrated with line drawings ♦ The book contains colour plates spread over 20 pages ♦ A useful guide to breast self-examination has been included as an annexure ♦ Algorithms for the management of

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**Contents:** Development of the Breast ♦ Anatomy of the Breast ♦ Physiology of the Breast ♦ Clinical Evaluation of the Breast ♦ Imaging and Interventional Radiology in Benign Breast Lesions ♦ Pathology of Benign Breast Diseases ♦ Management of Clinical Problems ♦ Aesthetic Surgery of the Breast ♦ Prevention of Benign Breast Diseases ♦ *Appendix 1: Algorithms for the Management of Common Breast Problems* ♦ *Appendix 2: Guide to Breast Self-examination* ♦ *Index* ♦ *List of Plates: Development of the Breast; Anatomy of the Breast; Physiology of the Breast; Pathology of Benign Breast Diseases; Management of Clinical Problems; Aesthetic Surgery of the Breast; List of Slides in the CD*

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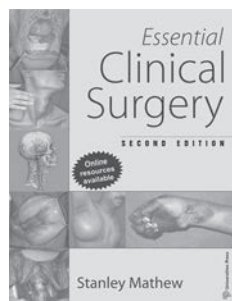
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### Essential Clinical Surgery (Second Edition)

Stanley Mathew

Professor and Head of the Department of General Surgery, Kasturba Medical College, Manipal.



Online resources  
available

The second edition of *Essential Clinical Surgery* is a comprehensive textbook on the subject for undergraduate medical students and postgraduates in general surgery. It carries forward from the first edition a presentation style that is unique to this book. The premise of the approach herein is that if a sign is elicited incorrectly, it will result in a flawed observation. A flawed observation, in turn, will result in a wrong inference and thereby a wrong diagnosis. Hence a poor history taking

or an incorrect method of examination is likely to prove costly for the index patient, who will then be advised further investigations, often culminating in unnecessary interventions. This may be the reason for patients to seek second opinions. *Essential Clinical Surgery* focuses on describing the correct method of eliciting history and demonstrating physical signs, without ambiguity.

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In the companion website for this book, [www.stanleysurgeon.com](http://www.stanleysurgeon.com), attempts have been made to utilise multimedia to augment the textual and

pictorial depiction of the clinical signs of various disease conditions. The available multimedia supplements are marked (W) within the text. A list of competencies and Specific Learning Objectives (SLOs) that teachers may consider desirable to impart to their students during clinical sessions with patients is presented at the end of each chapter (as envisaged in the Competency Based Medical Education (CBME) curriculum prescribed by the erstwhile MCI).

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## ENCYCLOPAEDIA

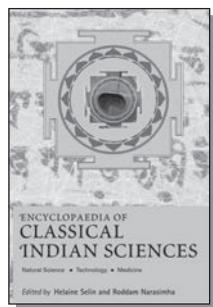
### Encyclopaedia of Classical Indian Sciences

**Helaine Selin**

Formerly Professor, Hampshire College, Amherst, USA

**Roddam Narasimha**

DST Year-of-Science Professor, Jawaharlal Nehru Centre for Advanced Science Research, Bengaluru, India



*India's contributions to science and technology are among the most ancient and influential in the world.* In mathematics, the decimal place value system with zero as a numeral, used universally today, owes its origin to India. The science of Ayurveda, which has been practised for millennia in India, is now gaining wider acceptance even as many ancient remedies are turned into modern drugs. Indian astronomical computations, ritual geometry, brick technology and metallurgical innovations have been among the finest achievements in the world of science and technology.

*Encyclopaedia of Classical Indian Sciences* is an attempt to provide an authentic account of natural science, technology and medicine as practised by Indians and other South Asians. It also includes biographical articles on many ancient Indian scientists, and some articles (polemic in nature) on the history of Indian science and technology, such as *the essay on the effects of colonialism*. All articles are contributions of acknowledged authorities on their subject drawn from across the world.

**Contents:** *Preface* ♦ *Acknowledgements* ♦ Agriculture ♦ Alchemy ♦ Algebra: Bijaganita ♦ Arithmetic: Patiganita ♦ Armillary Spheres ♦ Aryabhata ♦ Astrology ♦ Astronomical Instruments ♦ Astronomy ♦ Astronomy in the Indo-Malay Archipelago ♦ Atomism ♦ Atreya ♦ Bakhshali Manuscript ♦ Baudhayana ♦ Bhaskara I ♦ Bhaskara II ♦ Al-Biruni ♦ Brahmagupta ♦ Bricks ♦ Calculus ♦ Calendars ♦ Candrasekhara Samanta ♦ Caraka ♦ City Planning ♦ Colonialism and Science ♦ Combinatorics in Indian Mathematics ♦ Decimal Notation ♦ Desantara ♦ Devacarya ♦ Dyes ♦ East and West ♦ East and West: India in the Transmission of ♦ Knowledge from East to West ♦ Eclipses ♦ Environment and Nature ♦ Epilepsy ♦ Ethnobotany ♦ Forestry ♦ Geography ♦ Geometry ♦ Gnomon ♦ Haridatta ♦ Irrigation in India and Sri Lanka ♦ Jagannatha Samrat ♦ Jai Singh ♦ Jayadeva ♦ Kamalakara ♦ Knowledge Systems: Local Knowledge ♦ Knowledge Systems ♦ Lalla ♦ Lunar Mansions in Indian Astronomy ♦ Madhava of Sangamagrama ♦ Magic and Science ♦ Magic Squares in Indian Mathematics ♦ Mahadeva ♦ Mahavira ♦ Mahendra Suri ♦ Makaranda ♦ Maps and Mapmaking ♦ Mathematics ♦ Medical Ethics ♦ Medicine: Ayurveda ♦ Medieval Science and Technology ♦ Metallurgy: Bronzes of South India ♦ Metallurgy: Iron and Steel ♦ Metallurgy: Zinc and its Alloys: Ancient Smelting Technology ♦ Meteorology ♦ Military Technology ♦ Munisvara ♦ Narayana Pandita ♦ Navigation ♦ Number Theory ♦ Observatories ♦ Paksa ♦ Parameswara ♦ Paulisa ♦ Physics ♦ Pi in Indian Mathematics ♦ Precession of the Equinoxes ♦ Putumana Somayaji ♦ Rainwater Harvesting ♦ Ramanujan ♦ Rationale in Indian Mathematics ♦ Rockets and Rocketry ♦ Salt ♦ Saikara Variyar ♦ Satananda ♦ Science as a Western Phenomenon ♦ Sexagesimal System ♦ Sphujidhvaja ♦ Sridhara ♦ Sripati ♦ Sulbasutras ♦ Suryasiddhanta ♦ Susruta ♦ Technology and Culture ♦ Textiles ♦ Time ♦ Trigonometry ♦ Vakyakarana ♦ Values and Science ♦ Varahamihira ♦ Vatesvara ♦ Weights and Measures in the Indus Valley ♦ Western Dominance ♦ Wind Power ♦ Yavanesvara ♦ Yoga ♦ Yuktibhasa of Jyesthadeva ♦ Zero ♦ Zij ♦ Zodiac ♦ *List of Contributors* ♦ *Index*

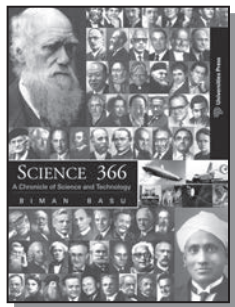
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2007                      492 pp.                      Hardback  
978-81-7371-555-6                      ₹ 1,600.00

## Science 366: A Chronicle of Science and Technology

**Biman Basu**

Formerly Editor, Science Reporter, Council of Scientific and Industrial Research (CSIR), New Delhi, India



Dates have an important place in our lives—not only are they historical occasions that we observe every year but they are also milestones to measure our growth in age, prosperity and wisdom. Therefore, dates in the scientific field can be used as a measure of progress in our quest for the unknown—dates when some important scientific discovery was made or some famous scientist was born. There are also dates that mark important breakthroughs in our understanding of the universe around us—new discoveries and new inventions that have changed our life.

*This book can be considered a diary of scientific events—both Indian and international—including dates related to scientists and their works; inventors and their inventions; scientific organisations; and important scientific occurrences.*

The entries are arranged chronologically. An entry for the date of birth of a scientist or inventor gives a brief biography of the person, while an entry for the date of founding or inauguration of a scientific institution gives a brief summary of the activities and achievements of the institution. All the entries are cross-referenced for easy navigation.

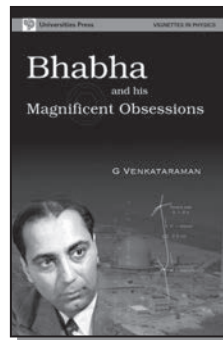
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2008                      712 pp.                      Paperback  
978-81-7371-607-2                      ₹ 2,495.00

## BIOGRAPHIES

### Bhabha and His Magnificent Obsessions

G Venkataraman



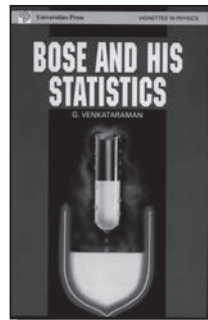
This book is about the remarkable scientist Homi Jehangir Bhabha who, at the age of eighteen, went to Cambridge to study physics and started his research career there. In 1939, when Bhabha came to India on a short vacation, he was forced to stay on as the Second World War broke out. This was, of course, a blessing for the country as he later steered the country's scientific destiny. The book records Bhabha's contributions which were in many dimensions and not just purely scientific.

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For details, visit [www.universitiespress.com](http://www.universitiespress.com).

1994                      222 pp.                      Paperback  
978-81-7371-007-0                      ₹ 650.00

### Bose and His Statistics

G Venkataraman



This book describes a monumental discovery made by Satyendranath Bose. It also helps the reader take a step closer in understanding Bose—the

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### Chandrasekhar and His Limit

G Venkataraman

This is a heartwarming and very inspiring story about Subrahmanyam Chandrasekhar, the most distinguished mathematical physicist India has produced. In a long and remarkable career, Chandrasekhar has done many outstanding things but this book concentrates mostly on one of them, namely, the discovery of the Chandrasekhar Limit.

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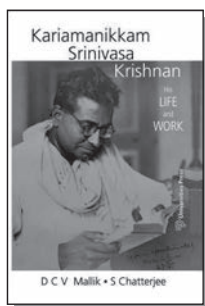
### Kariamanikkam Srinivasa Krishnan: His Life and Work

D C V Mallik

Formerly Professor, Indian Institute of Astrophysics, Bengaluru, India

S Chatterjee

Professor, Indian Institute of Astrophysics, Bengaluru, India



The first four decades of the 20th century were glorious years for science, especially physics. Our view of the physical world changed forever with the emergence of quantum mechanics and

Einstein's formulation of the theory of relativity. India too contributed significantly to this scientific revolution with the discoveries made by S N Bose, C V Raman and M N Saha, all in the space of about a decade. *Kariamanikkam Srinivasa Krishnan (1898-1961)* belonged to the same illustrious group. He was perhaps the only Indian physicist of his generation who was equally adept in theory and experiment. Besides a life of excellence in science, Krishnan's destiny led him to be an able science policy maker and administrator. *He was also a great teacher, a humanist and a scholar of Sanskrit, Tamil literature and philosophy.*

This biography, besides being a detailed and meticulously documented account of Krishnan's life and his scientific work, is also an *exciting account of the history of Indian science of the period. The source material of this work, most of which are being used for the first time, comes from the private papers of K S Krishnan that had remained in the custody of his family.*

**Contents:** Foreword ♦ Acknowledgement ♦ Prologue ♦ Background ♦ Childhood and Schooling ♦ College Years ♦ Science Education and Its Beginnings in Calcutta ♦ Calcutta ♦ Scattering of Light ♦ Discovery of the Raman Effect ♦ Dacca ♦ Bonds of Magnetism I: The Dacca Phase ♦ Winds of Change ♦ Bonds of Magnetism II: The Calcutta Phase ♦ Graphite and Its anomalous Diamagnetism ♦ Honours and Offers ♦ The Physics Chair at Allahabad ♦ Rejuvenating Physics in Allahabad ♦ The Widening Vista ♦ Krishnan in Delhi ♦ NPL: The Initial Years ♦ Oscillating Lattices, Emitting Surfaces, Heated Tubes ♦ The Broader Stage ♦ Into the Twilight ♦ Appendix ♦ Primary Sources ♦ Bibliography ♦ Index

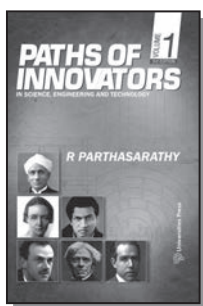
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### Paths of Innovators, Volume 1

R Parthasarathy

Formerly Professor, Department of Physics, IIT Madras, Chennai, India



*This is the first volume of a set of two volumes. It comprises a collection of scientists' lives, their struggles, their achievements and their laurels. The scientists have been grouped under five disciplines—Engineering, Physics, Mathematics, Chemistry and Life Sciences. The reader meets people from various backgrounds—those with insufficient schooling, those with little money, those born into aristocracy, those with science in their blood, those battling with grave illnesses, those who moved from one discipline to another (as different as possible from each other); ultimately culminating in path-breaking scientific discoveries. The aim of these brief biographical sketches is to inspire a wider audience to take up the noble pursuit of pure sciences.*

**Contents:** *Engineering:* Appleton, Edward ♦ Arago, Jean ♦ Babbage, Charles ♦ Baird, John ♦ Callendar, Hugh ♦ Carnot, Sadi ♦ Cotton, Arthur ♦ Diesel, Rudolf ♦ Esaki, Leo ♦ Faraday, Michael ♦ Fulton, Robert ♦ Giaever, Ivar ♦ Haber, Fritz ♦ Haggerty, Patrick ♦ Heaviside, Oliver ♦ Henry, Joseph ♦ Hertz, Heinrich ♦ Karman, Theodore von ♦ Kelvin, Lord ♦ Krupp, Alfred ♦ Langmuir, Irving ♦ Marconi, Guglielmo ♦ Ohain, Hans von ♦ Shannon, Claude ♦ Taylor, GI ♦ Terzaghi, Karl ♦ Tesla, Nicola ♦ Steinmetz, Charles ♦ Stephenson, George ♦ Watt, James ♦ Whittle, Frank ♦ Zworykin, Vladimir

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*Mathematics:* Abel, Henrik ♦ Bessel, Friedrich ♦ Boole, George ♦ Bradley, James ♦ Cantor, Georg ♦ Cauchy, Augustin ♦ Chandrasekar, S ♦ Descartes, Rene ♦ Erdos, Paul ♦ Euler, Leonhard ♦ Fourier, Joseph ♦ Galois, Evariste ♦ Gauss, Carl ♦ Halley, Edmund ♦ Hawking, Stephen ♦ Hilbert, David ♦ Herschel, John ♦ Herschel, William ♦ Lagrange, Joseph ♦ Laplace, Pierre ♦ Leibniz, Gottfried ♦ Pascal, Blaise ♦ Poincare, Henri ♦ Ramachandra, Yasudas ♦ Ramanujan, Srinivasa ♦ Riemann, Bernhard ♦ Wiener, Norbert

*Chemistry:* Arrhenius, Svante ♦ Avogadro, Amedeo ♦ Berthollet, Claude ♦ Berzelius, Jacob ♦ Black, Joseph ♦ Bunsen, Robert ♦ Dalton, John ♦ Dulong, Pierre ♦ Fourcroy, Antoine ♦ Gay-Lussac, Joseph ♦ Hodgkin, Dorothy ♦ Hofmann, August von ♦ Joliot-Curie, Irene ♦ Kekule, Friederich ♦ Lavoisier, Antoine ♦ Liebig, Justus von ♦ Mendeleev, Dmitri ♦ Perkin, William

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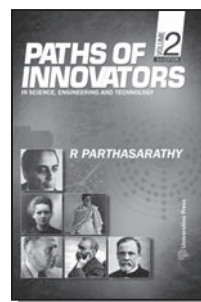
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## Paths of Innovators, Volume 2

R Parthasarathy

Formerly Professor, Department of Physics, IIT Madras, Chennai, India



*This is the second volume of a set of two volumes. It comprises a collection of scientists' lives, their struggles, their achievements and their laurels. The scientists have been grouped under five disciplines—Engineering, Physics, Mathematics, Chemistry and Life Sciences. The reader meets people from various backgrounds—those with insufficient schooling, those with little money, those born into aristocracy, those with science in their blood, those battling with grave illnesses, those who moved from one discipline to another (as different as possible from each other); ultimately culminating in path-breaking scientific*

discoveries. *The aim of these brief biographical sketches is to inspire a wider audience to take up the noble pursuit of pure sciences.*

**Contents: Engineering:** Ampere, Andre-Marie ♦ Benz, Karl ♦ Bessemer, Henry ♦ Bhabha, Homi ♦ Bosch, Carl ♦ Cayley, George ♦ Cockcroft, John ♦ Daimler, Gottlieb ♦ De Laval, Gustav ♦ Francis, James ♦ Grove, Andrew ♦ Guillemin, Ernst ♦ Kaplan, Victor ♦ Kelly, William ♦ Khosla, AN ♦ Korolov, Sergi ♦ Lienthal, Otto ♦ Mond, Ludwig ♦ Morse, Samuel ♦ Otto, Nikolous ♦ Parsons, Charles ♦ Pelton, Lester ♦ Prandtl, Ludwig ♦ Reynolds, Osborne ♦ Sarabhai, Vikram ♦ Seshu, Sundaram ♦ Sperry, Elmer ♦ Tata, JRD ♦ Vishveshwaraya, M ♦ Von Bekesy, Georg ♦ Westinghouse, George ♦ Wheatstone, Charles ♦ Wollaston, William ♦ Wright, Orville ♦ Wright, Wilbur

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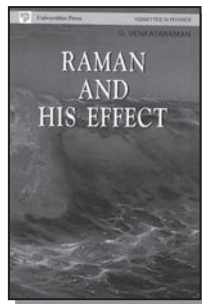
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### **Wings of Fire: An Autobiography (Abridged, Special Student Edition with Exercises)**

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**Arun Tiwari**

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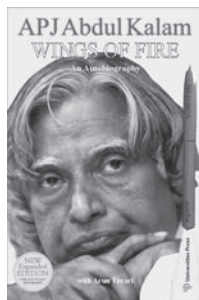
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This is the remarkable story of Avul Pakir Jainulabdeen Abdul Kalam, the 'People's President'

and a visionary scientist who propelled India to the forefront of space and missile technology. From humble beginnings to the highest office, Kalam's life stands as a testament to his unwavering dedication to education, innovation and national service. A true polymath, Kalam's words and thoughts reveal the relentless curiosity, profound wisdom and enduring optimism that defined his life.

This New Edition completes the narrative by including the period from 1991 to 2015, showcasing Kalam's Presidential years and post-Presidential life, and concludes with his demise. With a Foreword by Harry Sheridon, Kalam's former private secretary, more than 50 new photographs and a wealth of interesting detail, this book explores the enduring legacy of one of India's most beloved and charismatic leaders.

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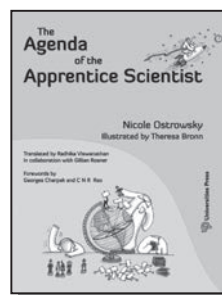
**2026** **248 pp.** **Paperback**  
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## **GENERAL INTEREST**

### **Agenda of the Apprentice Scientist, The**

**Nicole Ostrowsky**

Professor Emeritus, University of Nice Sophia  
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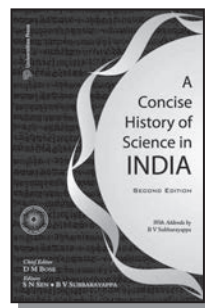
Throw yourself into this adventure across the sciences, go at your own pace, follow your fancy and don't necessarily stick to the days of the year. Keep in mind, however, that some activities take place over a couple of days—you will see this as you go. Set your imagination free, do or redo the experiments as you wish, and try and invent better ways to make them work. If you have problems, if you need a clearer explanation, or if you want to share your ideas, you can write to [Nicole.Ostrowsky@unice.fr](mailto:Nicole.Ostrowsky@unice.fr) or visit <http://apprenticescientist.com>

But most importantly, don't hesitate to play, draw, cut, construct, write and think—there is no better way to learn than through this maxim:

Tell me and I'll forget,  
Show me and I may remember,  
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*India's contributions in the field of science have been very influential in the development of human civilisation. The decimal place value system and the Ayurvedic way of life are just two well-known legacies of this ancient culture.* Yet there are only a few books which provide an unbiased and authentic view of this world. One reason for this is that the study of Indian science through the ages involves the complex integration of the knowledge of many languages and diverse scientific disciplines. Through the years, there has been growing interest in this study as an important aspect in understanding man's interaction with nature, his material life and cultural patterns. The Indian National Science Academy, through its History of Science Board (1958) and the National Commission for the Compilation of History of Sciences in India (1967) renamed in 1989 as the Indian National Commission for History of Science sought further means to stimulate this interest among universities and scholars. The result was the publication of *A Concise History of Science in India*.

*This book attempts to present a brief account of the development of science from early times to Independence, in one of the most ancient civilisations of the world. After nearly four decades since its publication, A Concise History of Science in India remains one of the most extensive and authentic account of Indian science through the ages. Yet further studies in the field have brought to light new material. This revised edition, taken up by B V Subbarayappa, one of the three original editors, seeks to integrate the new information with the knowledge already at hand.*

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**D M Bose (Ed.)**

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**B V Subbarayappa (Ed.)**

Formerly Executive Secretary, Indian National Science Academy, New Delhi; Project Coordinator and Member Secretary, National Commission for the History of Science in India; Director, Discovery of India Project, at Nehru Centre, Mumbai, India

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**Ever Upwards: ISRO in Images****P V Manoranjan Rao**

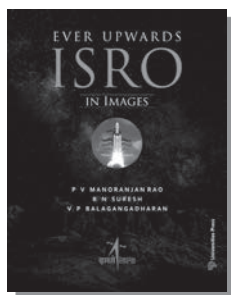
Formerly Group Director, Vikram Sarabhai Space Centre, ISRO

**B N Suresh**

Chancellor, Indian Institute of Space Science and Technology, Thiruvananthapuram, India; Formerly Director, Vikram Sarabhai Space Centre, ISRO

**V P Balagangadharan**

Formerly Scientist, Vikram Sarabhai Space Centre, ISRO



The Indian space programme has the unique distinction of being born in a place of worship: the St. Mary Magdalene Church in Thumba, a fishing hamlet near Thiruvananthapuram, the capital of Kerala. From those humble beginnings in 1963, the national space programme grew under the visionary guidance of Vikram Sarabhai and Satish Dhawan to become a technological giant, known today as the Indian Space Research Organisation (ISRO). Sarabhai created ISRO in 1969.

This year, 2019, marks the birth centenary of Sarabhai and the 50th anniversary of ISRO. This book celebrates the double anniversary through over 370 photographs, lovingly curated by the authors from a collection of 2000. Some of them have never before been seen by the public, while others are eye-catchingly beautiful.

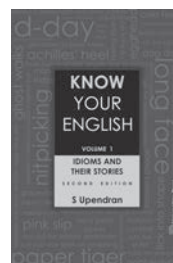
The authors have worked on this book for over five years, always keeping abreast with the latest developments in ISRO: from its birth in a church in 1963 to Chandrayaan-2, whose launch is imminent.

This is the story of ISRO told through images. The pictures speak for themselves!

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**Know Your English, Volume 1:** **Idioms and Their Stories** **REVISED EDITION**  
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**S Upendran**

Formerly Professor, Department of Materials Development, English and Foreign Languages University, Hyderabad, India



This is the first of our four-volume series based on *Know Your English*, the popular weekly column published in *The Hindu* since 1982. Teachers, students and those who are keen on honing their speaking and writing skills will find the series useful. This enlarged and updated second edition contains a selection of 570 idioms. Each entry gives the meaning of the idiom, provides examples of its use and, wherever possible, traces its origins. The selections in this book are from those that featured between 1992 and 2018.

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**Know Your English, Volume 2:**  
**Words Frequently Confused**
**S Upendran**

Professor, Department of Materials Development, Testing and Evaluation, English and Foreign Languages University, Hyderabad, India



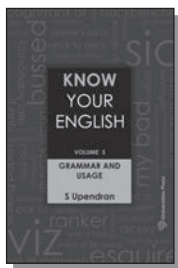
When an Indian decides to settle down in America, does he 'emigrate' or 'immigrate' to that country? What is the difference between 'it's' and 'its'? Should you refer to your fellow coworker as 'my elder colleague' or 'my older colleague'? *Words Frequently Confused*, the second volume in the four volume series, *Know Your English*, clears doubts such as these.

Like the first volume, *Idioms and Their Stories*, this book is based on S Upendran's popular weekly column *Know Your English*, published in *The Hindu*. It contains a selection of about 480 pairs of words that are frequently confused. Each entry gives the meaning of the words and points out the difference between them. Examples are also provided showing how the words can be used in everyday contexts. Some of the entries also contain information about the pronunciation and the etymology (origin) of the word.

|                          |                |                  |
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| <b>978-81-7371-730-7</b> |                | <b>₹ 895.00</b>  |

### **Know Your English, Volume 3: Grammar and Usage**

*S Upendran*



Do you enjoy being in 'crowdy' places? What is the plural of 'aircraft' and 'cattle'? Is it 'media are' or 'media is'? Do you have a 'soft spot' or a 'soft corner' for someone? Are you 'good at' or 'good in' cricket? Were you a 'topper' or 'ranker' in school? Why do software engineers want us to 'revert back' to them? Do you pay 'in cash' or 'by cash'? Does your house have a big backside?

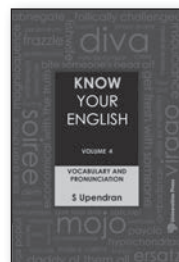
*Grammar and Usage*, is a practical reference guide that provides answers to such questions. The selections included in the book highlight some of the common errors that we Indians make when we use English.

Like the first and second volumes, this book is based on Upendran's popular weekly column, *Know Your English*, published in *The Hindu*. It contains a selection of over 650 entries, each dealing with an aspect of grammar/usage. Explanations have been provided in simple, jargon-free language.

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### **Know Your English, Volume 4: Vocabulary and Pronunciation**

*S Upendran*



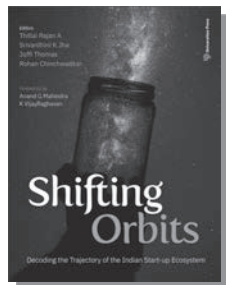
Is 'tier' pronounced the same way as 'tyre'? Which syllable is stressed in 'baton'— the first or the second? How is the word 'danseuse' pronounced? Are you friends with the 'big cheese' on campus? When you watch a film, do you have a sense of 'déjàvu'?

*Vocabulary and Pronunciation* is a practical reference guide that provides answers to such questions. The selections included in the book highlight some of the everyday words that we mispronounce when speaking in English. In addition, the book familiarises the reader with several hundred words and expressions used by native speakers of English in formal and informal contexts.

Like the earlier three volumes, this book is based on Upendran's popular weekly column, *Know Your English*, published in *The Hindu*. It contains a selection of over 800 entries; an explanation of the meaning, pronunciation and etymology of each word has been provided.

|                          |                |                  |
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## Shifting Orbits: Decoding the Trajectory of the Indian Start-up Ecosystem



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available

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Management Kozhikode, Kozhikode, India

### Rohan Chinchwadkar

Assistant Professor (Finance), Shailesh J Mehta  
School of Management, Indian Institute of  
Technology Bombay, Mumbai, India

In the new millennium, the shape of India's vibrant entrepreneurial economy has changed significantly to move towards one driven by technology and innovation. Today, India is one of the largest start-up and innovation hubs in the world, and the Indian start-up ecosystem has become an important contributor in our journey to become a \$5 trillion economy.

*Shifting Orbits* chronicles the spectacular rise of the start-up landscape in India in four different sections: innovation, incubation, funding and industry perspectives.

- The first section dives deeper into understanding how India is faring on innovation-led entrepreneurship and delineates the challenges to be overcome.

- The next section explains how incubators provide a safe harbour for start-ups so that they can survive and flourish as viable businesses.
- For start-ups to be able to grow and create an impact, funding is critical – the third section examines the current funding scenario and lists the policy changes essential for its growth,
- The section on industry perspectives takes an analytical, practice-centred view of the growth of the Indian innovation ecosystem.

Taken together, *Shifting Orbits* is a comprehensive narrative on innovation and venturing in India and provides valuable insights on current trends and practices as well as the challenges and potential benefits for the future.

Online resources available at:  
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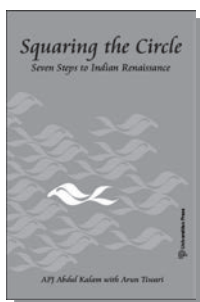
## Squaring the Circle: Seven Steps to Indian Renaissance

**A P J Abdul Kalam**

Former President of India

**Arun Tiwari**

Adjunct Professor, University of Hyderabad,  
Hyderabad, India



*Dr Kalam* calls for an Indian Renaissance, which he describes in seven steps involving the common people of the land, and in particular, the youth. He urges people to arise out of servitude to a vested ruling class, awake from the slumber of a passive democracy, and advance to manifest our destiny of a developed nation. He recommends that by turning inward and listening to the voice of our conscience, we can live a virtuous life and thereby build a strong and secure India.

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## Symphony of Innovation, The: Start-ups, Ecosystem, Collaborations and Risk Capital

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Professor, Department of Management Studies and Head, Centre for Research on Start-Ups and Risk Financing (CREST), Indian Institute of Technology (IIT) Madras, Chennai, India

**Jon Thomas**

Director, Esposito Family Centre for Innovation & Entrepreneurship (EFCIE); BC Regional Innovation Chair, Canada-India Partnership Development; and Associate Professor, University of the Fraser Valley (UFV) School of Business in Abbotsford, British Columbia, Canada



The Indian economy has undergone multiple shifts since independence: from focusing on agriculture to industry to services. As India stands on the threshold of becoming a developed nation, the thrust is to become an innovation-led economy. The contribution of start-ups is essential to achieve this transformation.

Just as a symphony in music brings about the convergence of four distinct movements, each with its own tempo and mood, this book consolidates the various aspects of innovation under four sections. Taken together, they provide a wide-ranging narrative on innovation and the ubiquitous role of start-ups and universities in the commercialisation of innovation.

**Contents:** *Foreword* ♦ *Preface* ♦ *Acknowledgements* ♦ *List of Contributors* ♦ *Overview* ♦ Fostering Science Innovation through an Ecosystem of Universities, Start-ups, Incumbents, Funders and Policymakers ♦ **Section A: Political Approaches to Start-up and Innovation** ♦ The Dravidian Approach to Start-ups and Innovation: The

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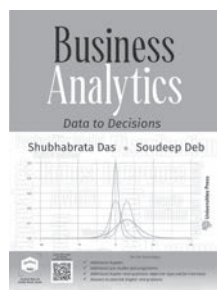
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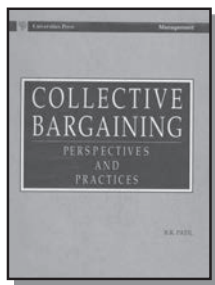
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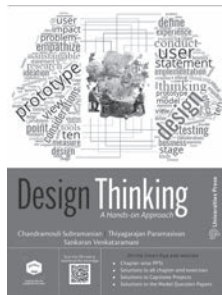
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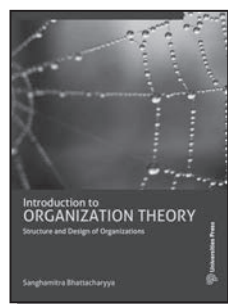
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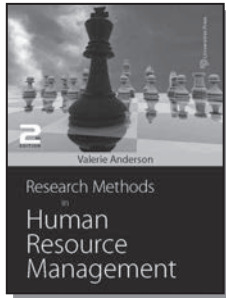
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