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ANATOMY

Essentials of Human Genetics

(Fifth Edition)

Manu L Kothari

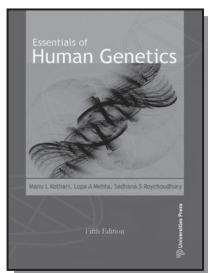
Professor and former Head, Department of Anatomy, Seth GS Medical College and King Edward Memorial Hospital, Mumbai, India

Lopa A Mehta

Professor and former Head, Department of Anatomy, Seth GS Medical College and King Edward Memorial Hospital, Mumbai, India

Sadhana S Roychowdhury

Professor of Anatomy, MIMER's Medical College, Pune, India



Genetics has become an integral part of medical teaching at undergraduate and postgraduate levels. It is a science where conceptual and terminological changes occur every day. This book provides information about various aspects of human genetics in a brief, simple, comprehensive yet interesting manner so as to sustain and drive the interest and enthusiasm of the reader.

The two main parts of the book, principles of genetics and applications of genetics, strive to provide current, relevant information in a clear and concise form. The new edition contains updated text detailing new advances in DNA replication and gene expression, detailed illustrations and examples, chapter summaries and a comprehensive glossary.

Special Features: Fully revised and updated ♦ New techniques explained ♦ Latest advances in molecular genetics, DNA replication and gene expression included ♦ Comprehensive glossary ♦ New examples and colour illustrations ♦ Concise summaries

Contents: *Section I: Principles of Genetics: An Introduction to Human Genetics* ♦ The Cell ♦ Cytogenetics: The Chromosomal Basis of Inheritance ♦ The Genetic Basis of Inheritance ♦ Modes of Inheritance ♦ Genetic Basis of Variation: Polymorphism and Mutation ♦ Population Genetics ♦ *Section II: Applications of Genetics: Immunogenetics and Blood Groups* ♦ Development Genetics ♦ Medical Genetics ♦ Biochemical Genetics ♦ The Genetic Basis of Cancer ♦ Clinical Genetics ♦ Laboratory Genetics ♦ *Appendix ♦ Glossary ♦ Index*

2009	502 pp.	Paperback
978-81-7371-647-8		₹ 895.00

AYURVEDA

Achar's Textbook of Pediatrics

(Fourth Edition)

Swarna Rekha Bhat (Ed.)

See page 18

Ananthanarayan and Paniker's Textbook of Microbiology

NEW

(Eleventh Edition)

Reba Kanungo

See page 16

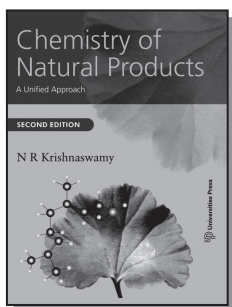
Chemistry of Natural Products:

A Unified Approach

(Second Edition)

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.

The second edition reflects the significant and important developments that have taken place since the publication of the first edition, particularly with regard to the biological aspects of natural products.

Contents: Introduction ♦ Structure ♦ Stereochemistry ♦ Reactions and Rearrangements ♦ Synthesis ♦ Biosynthesis ♦ Biological Significance of Secondary Metabolites ♦ *Problems* ♦ *Index*

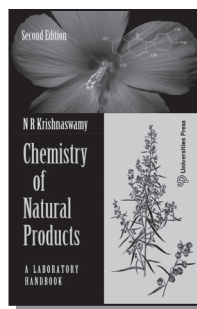
2010	432 pp.	Paperback
978-81-7371-677-5		₹ 750.00

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

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



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:

- Metabolism of Natural Products
- Suggested Projects

Notes on how to collect and identify plant materials, and the preparation of diagnostic chemical reagents used in the characterisation of natural products, have been included.

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.

Contents: Introduction ♦ A Survey of the Methods of Extraction, Isolation and Fractionation of Naturally Occurring Organic Compounds ♦ Characterisation of Naturally Occurring Compounds ♦ Procedures for Isolation of Select Compounds ♦ Chemical Transformations of some Natural Products ♦ Synthesis of Select Compounds ♦ Metabolism of Natural Products ♦ *Suggested Projects* ♦ *Appendix A* ♦

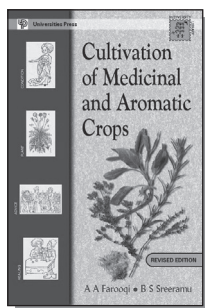
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Appendix B ♦ Index of Compounds ♦ Index of Plants
♦ Index of Reagents

2012 224 pp. Paperback
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Cultivation of Medicinal and Aromatic Crops

A A Farooqi & B S Sreeramu



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, the Regional Research Laboratories, ICAR and others.

2004 344 pp. Paperback
978-81-7371-504-4 ₹ 1,525.00

Essential Obstetrics: Textbook for Undergraduates

Asha Oumachigui, S Soundara Raghavan &
S Habeebullah

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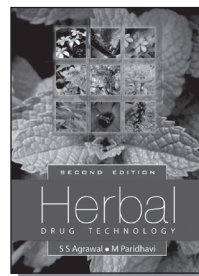
Herbal Drug Technology (Second Edition)

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

Contents: Introduction to Medicinal Plants ♦ Indian Systems of Medicine ♦ Herbal Therapeutics: From Ancient Times to the 21st Century ♦ Essentials of Crude Drugs ♦ Medicinal Botany ♦ In vitro Culture

of Medicinal Plants: Tissue Culture ♦ Systematic Examination of Powdered Drugs ♦ Application of Chromatography and Spectroscopy in Plant Drug Analysis ♦ Extraction, Isolation and Analysis of Phytopharmaceuticals ♦ Screening Methods Used for Herbal Drugs ♦ Standardisation of Herbal Drugs ♦ Herbal Formulations: A Comparative Study of Ayurvedic and Modern Dosage Forms ♦ Herbal Cosmetics ♦ Nutraceuticals: A Modern Approach ♦ Chemotaxonomy ♦ The Role of Literature Search in Medicinal Plant Research ♦ Patenting of Herbal Drugs ♦ *Index* ♦ *List of Plates: Plate 1a: Callus culture ♦ Plate 1b: Plantlets formed from callus culture ♦ Plate 2: Shoot elongation and rooting of in vitro regenerated shoots ♦ Plate 3: Plantlets acclimatised to greenhouse conditions ♦ Plate 4: Immobilised beads*

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2012	836 pp.	Paperback
978-81-7371-787-1		₹ 1,350.00

Indian Medicinal Plants: A Compendium of 500 Species

P K Warriar

Managing Trustee, Arya Vaidyasala, Kottakal, India

V P K Nambiar

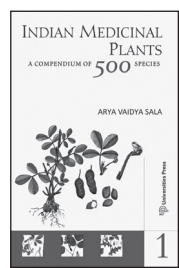
Formerly Systematic Botanist, Kerala Forest Research Institute, Peechi, India

C Ramankutty

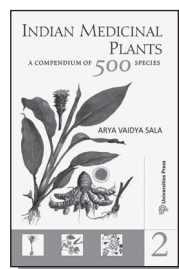
Arya Vaidyasala, Kottakal, India

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.

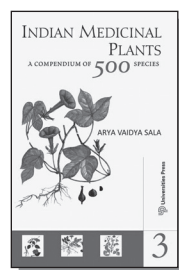
The compendium also lists the distribution and popular nomenclature in English, Sanskrit, Hindi, Malayalam and Tamil. The main texts present properties and uses in a format which cites ancient verse texts and ethnobotanical sources. This rare work, in five volumes, should be of special interest to practitioners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



Volume 1, 1993 430 pp. Hardback
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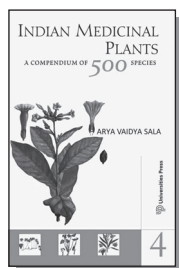


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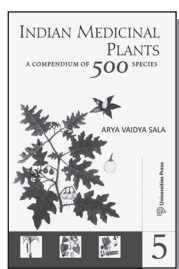


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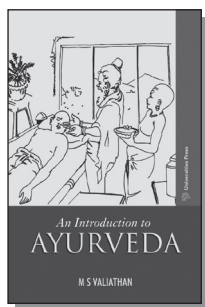


Volume 5, 1996 592 pp. Hardback
978-81-7371-706-2 ₹ 2,250.00

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*

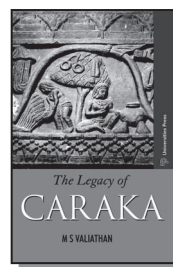
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2013 156 pp. Paperback
978-81-7371-827-4 ₹ 450.00

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.

Prices are subject to change without notice

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 I: 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*

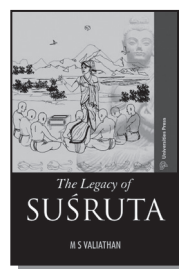
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2003	738 pp.	Hardback
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Legacy of Susruta, The

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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 of physicians** ♦ **Section III: Surgical Profile of Clinical Practice** ♦ Surgical procedures; pre- and postoperative care ♦ Surgical instruments (yantras

and Sastras) ♦ Use of alkalis (Ksara) ♦ Cauterisation (agnikarma); burns and treatment ♦ Blood-letting (raktavisravana): methods and management ♦ Assorted surgical techniques ♦ Fractures and dislocations (Kandabhagna: Sandhimukta) ♦ **Section IV: Introduction to Clinical Practice** ♦ Diseases and their classification ♦ Time, seasons and the human body ♦ Dosas ♦ Fall and rise of dosas, dhatus and malas; Observations on blood ♦ Rasas ♦ Wholesomeness: food incompatibilities ♦ Geographical influences in pharmacy ♦ Principles of therapeutics ♦ **Section V: Food and Drinks** ♦ Liquids for intake ♦ Food ♦ A code for dining ♦ **Section VI: Predictors of death and recovery** ♦ **Section VII: Drugs** ♦ Basis of drug action: drugs as substances ♦ Tastes in the transformation of substances ♦ Classification ♦ Emetics and purgatives ♦ Drugs for topical use in wounds, abscesses and ulcers ♦ **Section VIII: Systemic Diseases** ♦ Vata disorders (vatavyadhi) ♦ Piles (arsas) ♦ Urinary calculi (asmari) ♦ Urinary obstruction; difficult urination (mutraghata, mutrakrcchra) ♦ Diseases of the urinary tract (prameha) ♦ Fistula-in-ano (bhagandara) ♦ Skin diseases (kustha) ♦ Abdominal swelling (udararoga) ♦ Inflammation and suppuration (Sopha) ♦ Abscesses (vidradhi) ♦ Cellulitis, sinuses, breast disease in women (Visarpa, nadi, stanaroga) ♦ Ulcers (vrana) ♦ Traumatic injuries (sadyaovvrana) ♦ Cystic and glandular swelling; tumours; goitre (grandhi, apaci, arbuda, galaganda) ♦ Scrotal swellings; genital inflammation and elephantiasis (vrddhi, upadamSa, slipada) ♦ Minor disorders (Ksudraroga) ♦ Sukadosa ♦ Oral diseases (mukharoga) ♦ **Section IX: More Systemic Diseases and Related Conditions** ♦ Fevers (jvara) ♦ Diarrhea (atisara) ♦ Phthisis (Sosa) ♦ Gaseous lumps of the abdomen (guma) ♦ Heart disease; pallor and jaundice; internal bleeding (Hrdroga, Panduroga, kamala, raktapitta) ♦ Fainting; alcoholic disorders (murccha, panatyaya) ♦ Morbid thirst; loss of appetite; regurgitation; vomiting; hiccup, arocaka, udavarta chardi, hikka) ♦ Shortness of breath; cough; hoarse voice (Svasa, kasa, svarabheda) ♦ Worm infestation; diarrhea due to indigestion (krmiroga, visucika) ♦ **Section X: Diseases of the Head and Neck (SaIakyantra)** ♦ Eye and eye diseases ♦ Treatment of eye diseases ♦ Eye diseases; treatment by surgical measures ♦ Diseases of the pupillary region (Drsti) ♦ Medical procedures in the treatment of eye diseases ♦ Diseases of the ear, nose and head ♦ Diseases of the ear lobe following elongation ♦ **Section XI: Diseases of Planetary Origin** ♦ Children's diseases caused by junior planets (balagraha) ♦ Role of planets in the origin of disorders ♦ Seizures (apasmara) ♦ Insanity

(unmada) ♦ **Section XII: Poisoning (Visa)** ♦ Poisoning ♦ Fixed and mobile poisons ♦ Snake bite (sarpadasta) ♦ Poisoning by rats and other animals (musikavisa and others) ♦ Poisoning by insects (kitavisa) ♦ **Section XIII: Medical Procedures** ♦ Lubricant therapy and fomentation (snehana, svedana) ♦ Emesis and purgation (vamana, virecana) ♦ Enemas (vasti) ♦ Complications of medical procedures ♦ Smoking, snuffing and gargling (dhuma, nasya, kavala) ♦ **Section XIV: Birth and Development of a human being** ♦ Origin of life ♦ Procreation; fetal anomalies ♦ Development of the fetus ♦ Development of the fetus; dosa prakrti ♦ Pregnancy; delivery; neonatal care ♦ Malpresentations of the fetus (muhagarbha) ♦ A count of body parts ♦ Vital spots (marmas) ♦ Srotas: siras and dhamaNs ♦ **Section XV: Rules for Healthy Living** ♦ Life in harmony with seasons ♦ Warding off diseases ♦ Virile therapy (vajikarana) ♦ Rejuvenant therapy (rasayana) ♦ *Epilogue* ♦ *Botanical names* ♦ *Glossary* ♦ *Index*

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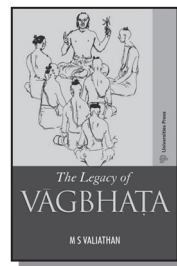
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Legacy of Vagbhata, The

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 *Astangasngraha*. 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 (Svastavrta)** ♦ A code for healthy conduct (svastavrta) ♦ 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 (sastrakarman) ♦ 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 (vatasanita, 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: sthavara 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 (mutrakrechra) ♦ 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 (guhyaroga) ♦ 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 (siroroga) ♦ **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: Virilisingtherapy (Vajikarana)** ♦ *Section XX: Epilogue ♦ Index*

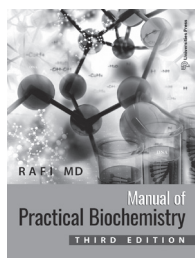
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For details, visit www.universitiespress.com

2009	946 pp.	Hardback
978-81-7371-668-3		₹ 1,595.00

Mudaliar and Menon's Clinical Obstetrics (Twelfth Edition)

Sarala Gopalan, S Rathnakumar &
Vanita Jain (Eds)

See page 29

BIOCHEMISTRY**Manual of Practical Biochemistry** **NEW**
(Third Edition)*Rafi MD*Dean and Medical Director, Surabhi Institute of
Medical Sciences, Siddipet, India

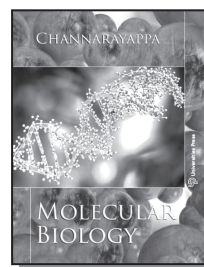
This book introduces some of the most widely used experimental procedures in biochemistry for students of MBBS and other allied sciences. In this new edition, all the chapters have been thoroughly revised to conform to the Competency-Based Medical Education (CBME) curriculum.

Salient features

- A wide range of qualitative analysis and quantitative estimations and measurements in biochemistry explained with emphasis on principles, procedures, observations and clinical interpretations
- Theory of the underlying principles and procedures included so that students are able to appreciate the biochemical basis of the demonstrated experiments/techniques
- Covers all the competencies prescribed in the CBME curriculum
- Several new topics or expanded treatment of topics such as electrophoresis, chromatography, estimation of pH and preparation of buffers, biomedical waste management, isolation and quantification of DNA, and biochemical tests for common clinical conditions are included in this edition
- Features viva questions commonly encountered in practical examinations
- Includes MCQs, problem-based exercises, questions relating to interpretation of laboratory data and case studies to aid students in their preparation for competitive examinations

Contents: *Preface to the Third Edition* ♦ *Preface to the First Edition* ♦ **Qualitative Experiments** ♦ Safety in the Laboratory ♦ Reactions of Carbohydrates ♦ Reactions of Lipids ♦ Reactions of Proteins ♦ Reactions of Non-protein Nitrogenous (NPN) Substances ♦ Identification of Unknown Substance of Biochemical Importance ♦ Analysis of Urine ♦ Analysis of Abnormal Constituents in Urine ♦ Qualitative Analysis of Saliva ♦ Qualitative Analysis of Gastric Juice ♦ Qualitative Analysis of Bile ♦ Qualitative Analysis of Milk ♦ Food Analysis ♦ **Quantitative Experiments** ♦ Introduction to Clinical Biochemistry ♦ Blood Glucose ♦ Glucose Tolerance Test ♦ Blood Urea and BUN ♦ Serum and Urinary Creatinine ♦ Uric Acid ♦ Serum Total Proteins and Albumin–Globulin Ratio ♦ Cholesterol and Lipid Profile ♦ Bilirubin ♦ Aminotransferases (AST and ALT or SGOT and SGPT) ♦ Alkaline and Acid Phosphatases (ALP and ACP) ♦ Creatine Kinase and Its Isoenzymes ♦ Amylase and Lipase ♦ Calcium and Phosphorus ♦ Serum Electrolytes ♦ Quantitative Analysis of CSF ♦ Electrophoresis ♦ Chromatography ♦ Spectroscopic Examination of Hemoglobin and Its Derivatives ♦ Radioimmunoassay (RIA) and Enzyme-linked Immunosorbent Assay (ELISA) ♦ Estimation of pH and Preparation of Buffers ♦ Biomedical Waste Management ♦ DNA Isolation and Quantification ♦ Biochemical Tests for Common Clinical Conditions ♦ *Appendices* ♦ *Index*

2020	296 pp.	Paperback
978-93-89211-65-8		₹ 350.00

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*

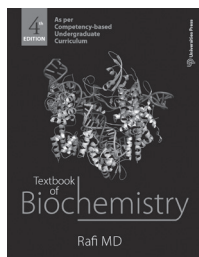
2015 508 pp. Paperback
978-81-7371-946-2 ₹ 925.00

Textbook of Biochemistry (Fourth Edition)

Rafi MD

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

NEW



The fourth edition of *Textbook of Biochemistry* is a comprehensive introduction to the basic concepts of biochemistry for undergraduate students of medicine. It covers all the topics and core competencies specified by the MCI in its 'competency-based undergraduate curriculum' effective from August 2019. The topics are developed in a manner that encourages students to think analytically as opposed to memory-based learning. Links between biochemistry and other medical subjects provided throughout the book help to reinforce this approach. A consistent feature of the book is the liberal use of illustrations, tabular layouts and highlighted text, which makes the assimilation and recall of the inherently complex aspects of biochemistry easy.

In this edition, descriptions of topics which may fall under the category of additional reading have been set off from the regular text in a smaller font size to distinguish them from the essential content. This feature, along with comprehensive chapter summaries, will help students to optimise the time spent in revising for examinations. The chapter-end exercises comprising review questions, MCQs, case studies, riddles and other problems will further enhance the revision experience. The problem-based exercises and case studies often reveal additional insights on the core concepts covered in the book.

Contents: Prelude — Molecular and Functional Organisation of Life ♦ Learning Biochemistry ♦ The Cell and Biological Membranes: Structure and Function ♦ **Molecules of Life** ♦ Carbohydrates ♦ Lipids ♦ Amino Acids and Proteins ♦ Nucleotides and Nucleic Acids ♦ Enzymes ♦ Vitamins ♦ **Physiological Biochemistry** ♦ Biochemistry of Blood ♦ Hemoglobin: Chemistry of Respiration ♦ Heme Synthesis and Degradation ♦ Digestion and Absorption d **Metabolism** ♦ A Journey into Metabolism ♦ Central Metabolism: Biological Oxidation ♦ Metabolism of Carbohydrates ♦ Metabolism of Lipids ♦ Metabolism of Amino Acids ♦ Metabolism of Nucleotides ♦ Integration of Metabolism ♦ Metabolism of Xenobiotics: Detoxification ♦ Nutrition ♦ Minerals ♦ Principles of Nutrition ♦ **Clinical Biochemistry** ♦ Water and Electrolytes ♦ Acid–Base Balance ♦ Organ Function Tests ♦ Biochemistry of Cancer ♦ **Molecular Biology** ♦ DNA Metabolism ♦ RNA Metabolism ♦ Protein Biosynthesis ♦ Regulation of Gene Expression ♦ **Biotechnology and Immunology**

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♦ Recombinant DNA Technology ♦ Molecular Biology Techniques ♦ Biochemical Techniques ♦ Immunochemistry ♦ **Biochemical Perspective of Endocrinology** ♦ Hormone Action ♦ Hypothalamic and Pituitary Hormones ♦ Thyroid Hormones ♦ Hormones of the Adrenal Gland ♦ Hormones of the Gonads ♦ Hormones of the Pancreas and Diabetes Mellitus ♦ **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 ♦ *Key to MCQs* ♦ *Appendix: Reference Values and Interpretation of Biochemical Parameters for Ready Clinical Reference* ♦ *Index*

2020	820 pp.	Paperback
978-93-89211-19-1		₹ 1,150.00

Textbook of Basic and Clinical Immunology

Sudha Gangal & Shubhangi Sontakke

See page 12

BIOMEDICAL SCIENCES

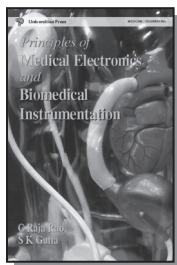
Principles of Medical Electronics and Biomedical Instrumentation

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.

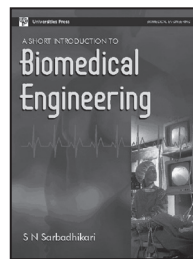
Contents: Introduction ♦ Human cell-action potentials ♦ Basis of bioelectric potentials ♦ Biopotential electrodes ♦ Transducers for biomedical applications ♦ Biomedical amplifiers ♦ Principles of recorders for recording bioelectric events ♦ Electrocardiography ♦ Electroencephalography ♦ Electromyography ♦ 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*

2000	288 pp.	Paperback
978-81-7371-257-9		₹ 575.00

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*

Distributed worldwide (except India) by CRC Press LLC, USA, Taylor and Francis Group

2006	276 pp.	Paperback
978-81-7371-558-7		₹ 525.00

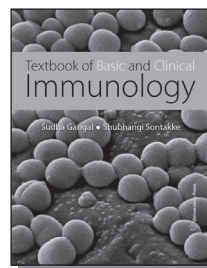
Textbook of Basic and Clinical Immunology

Sudha Gangal

Research Advisor, Integrated Cancer Treatment and Research Centre, Pune, India

Shubhangi Sontakke

Professor of Biochemistry, Rajiv Gandhi Institute of IT and Biotechnology, Bharati Vidyapeeth University, Pune, India



This book has been written keeping in mind the needs of the Indian student and curriculum. The content is exhaustive and cannot be found in any single textbook, Indian or foreign. Its uniqueness is the packaging of the basic and the clinical aspects of immunology in a single book. The purpose of creating this book is:

- To put forth the concepts involved in immunology in as simplified a manner as possible for the students whose first language is not English
- To reduce to the minimum, description of animal experiments so elegantly conducted to explain several important concepts (This was intentionally done to avoid confusion amongst students who are not exposed to animal science—basically the book gives more weightage to human immunology)
- To include immunology of diseases commonly encountered in South-East Asian countries, so that students of medicine will grasp the basic complexities of the diseases they encounter

The book is thematically divided into two sections.

The first sixteen chapters deal with basic immunology. This part deals with development and maturation of cells of the immune system, molecular basis of diversity of immune response, movement of cells to the site of infection directed by soluble mediators, functions of effector cells and molecules, and careful control of harmful effects of

activated immune effectors. Chapter 17 is entirely devoted to the principles of laboratory techniques used in immunology.

The second part, covered in ten chapters, deals with immune response to infectious and non-infectious diseases such as cancer, autoimmune diseases, allergy (hypersensitivity) and diseases caused by mutations occurring during several developmental steps in the complex process of maturation of immune response, giving rise to immunodeficiency diseases. While dealing with the problems in the life-saving procedure of allogeneic transplantation, a special section is devoted to the development of new biologics such as engineered monoclonal antibodies and fusion proteins, future applications of derivatized stem cells and other genetic engineering applications.

Contents: Introduction to Immunology ♦ Innate Immunity ♦ Cells of the Immune System ♦ Organs of the Immune System ♦ Antigens ♦ Antibodies ♦ Antigen Presenting Cells, Antigen Processing and Presentation ♦ Major Histocompatibility Complex ♦ B cells: Maturation, Activation, Proliferation and Differentiation ♦ Immunoglobulin Gene Rearrangement ♦ T Cell Maturation, Activation and Differentiation ♦ T Cell Receptor ♦ Cytokines, Chemokines and their Receptors ♦ Cell Signalling and Trafficking ♦ The Complement System ♦ Effector Mechanisms ♦ Principles and Applications of Laboratory Tests in Immunology ♦ Monoclonal Antibodies: Production and Applications ♦ Immunology of Bacterial Diseases ♦ Immunology of Viral Diseases ♦ Immunology of Parasitic Diseases ♦ Transplantation Immunology ♦ Tumour Immunology ♦ Tolerance and Autoimmunity ♦ Hypersensitivity ♦ Acquired and Inherited Immunodeficiency Diseases ♦ Vaccines ♦ *Appendix I: Selected markers of human Cluster of Differentiation (CD)* ♦ *Appendix II: Cytokines and growth factors: Sources and functions* ♦ *Appendix III: Chemokines, receptors and functions, Cells expressing chemokine receptors* ♦ *Appendix IV: Answers to objective questions and MCQs*

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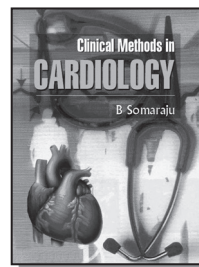
2013	572 pp.	Paperback
978-81-7371-829-8		₹ 1,075.00

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.

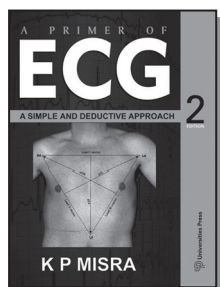
Contents: The Science and Art of Medicine ♦ Patient Presentations ♦ Cardiovascular Diagnosis ♦ Functional Categorization of Cardiovascular Disability ♦ Cardiovascular Dynamics: Basic Considerations ♦ The Patient's History ♦ Evaluation of Chest Pain: Diagnostic and Therapeutic Implications ♦ Dyspnea ♦ 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*

2002	524 pp.	Paperback
978-81-7371-657-7		₹ 950.00

Primer of ECG, A (Second Edition)

K P Misra

Formerly Senior Consultant Cardiologist and Director
Medical Education, Apollo Hospitals, Chennai, India



For over a decade, *A Primer of ECG* has served as an invaluable guide in helping students master the principles and applications of electrocardiography (ECG). This book, considered a classic in the field, explains the fundamentals of ECG and its interpretation as well as the common errors in interpretation. With over 40 years of experience in teaching and practising medicine and cardiology, K. P. Misra uses his unique flair and exhaustive knowledge to make this subject simple and easy to understand. The numerous illustrations support the text and enable greater clarity and understanding. This second edition of the book has been updated to reflect current thinking and aims to better serve the needs of students, practitioners and physicians.

Special Features: Simple language ♦ Updated chapters ♦ Numerous illustrations to enhance clarity ♦ Many examples and case studies

Contents: The History and Development of Electrocardiography ♦ Anatomy of the Electrocardiogram ♦ Electrical Axis, Position and Rotation of the Heart ♦ Chamber Enlargements ♦ Bundle Branch Blocks and Fascicular Blocks ♦ Heart Block ♦ Ischemic Heart Disease ♦ Arrhythmias ♦ Drugs and Electrolytes ♦ Congenital Heart Disease ♦ The Magic of ECG ♦ Artifacts in ECG ♦ Treadmill Test ♦ Computer Confusion ♦ *Index*

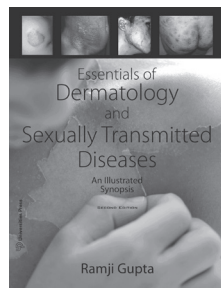
2010	168 pp.	Paperback
978-81-7371-687-4		₹ 575.00

DERMATOLOGY

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*

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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*

2018 216 pp. Paperback
 978-93-86235-54-1 ₹ 525.00

FORENSIC MEDICINE

Forensic Medicine and Toxicology NEW

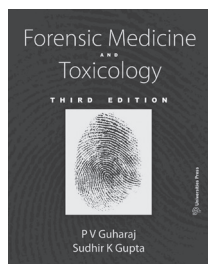
(Third Edition)

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



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

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

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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		₹ 1,125.00

MEDICINE

Textbook of Basic and Clinical Immunology

Sudha Gangal & Shubhangi Sontakke

See page 12

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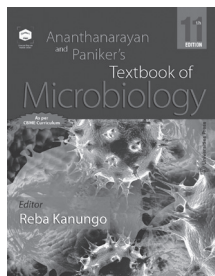
MICROBIOLOGY

Ananthanarayan and Paniker's Textbook of Microbiology (Eleventh Edition)

NEW

Reba Kanungo

Dean of Research, and Professor and Head,
 Department of Microbiology, Pondicherry Institute of
 Medical Sciences (PIMS), Puducherry, India



First published in 1978, *Ananthanarayan and Paniker's Textbook of Microbiology* has been a trusted reference book on microbiology for more than four decades and has evolved with the rapidly changing field of medical microbiology. To stay abreast of recent developments across the global and local infectious disease spectra, the new Competency-Based Medical Education (CBME) curriculum is aimed at integrating microbiology into the system-based approach to human disease. The eleventh edition of *Ananthanarayan and Paniker's Textbook of Microbiology* has been revised to address this restructuring of the curriculum and to make it better suited for the shorter course duration and system-based integration.

Chapters have been pruned without compromising on essential elements which have been presented in a lucid style and flow for an easy and enjoyable reading experience. Several clinical and laboratory images have been updated and line diagrams included for better visual impact and comprehension. Recent advances in disease detection, molecular diagnosis, quality control, infection prevention and control, public health and epidemiology and preventive strategies including national programmes have been brought up to date. An entire chapter (chapter 60) has been devoted to the essence of the competency-based integrated approach to system-wise infectious diseases. This chapter delves into the entire gamut of organisms involved in infectious diseases commonly affecting various systems of the human body and will pave the way for the study of pathogenic microorganisms as individuals and as groups. The traditional approach to the learning and understanding of the microbe–host–environment interaction, pathogenesis, clinical presentations, diagnosis, treatment and prevention of infections has been retained.

Contents: *Preface* ♦ **General Microbiology** ♦ Introduction to Microbiology ♦ Morphology and Physiology of Bacteria ♦ Sterilisation and Disinfection ♦ Culture and Identification of Bacteria ♦ Genetics of Bacteria ♦ Molecular Techniques Applied to Microbiology ♦ **Immunology** ♦ Structure and Functions of the Immune System ♦ Antigens ♦ Antibodies ♦ Complement System ♦ Immune Response ♦ Antigen–Antibody Reactions ♦ Hypersensitivity ♦ Immunodeficiency Diseases

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♦ Autoimmunity and Immunohematology ♦ Immunology of Transplantation and Tumour Immunity ♦ **Bacteriology** ♦ Normal Microbial Flora of the Human Body ♦ Antimicrobial Agents ♦ Staphylococci ♦ Streptococci, Enterococci and Pneumococci ♦ Neisseria and Moraxella ♦ Corynebacterium ♦ Bacillus ♦ Actinomycetes ♦ Clostridia ♦ Non-sporing Anaerobic Bacteria ♦ Mycobacteria I ♦ Mycobacteria II ♦ Enteric Bacilli (Gram-Negative Rods) ♦ Vibrionaceae ♦ Gram-Negative Non-fermenters ♦ Haemophilus ♦ Brucella and Bordetella ♦ Spirochetes ♦ Chlamydia ♦ Mycoplasma and Ureaplasma ♦ Rickettsiae and Related Bacteria (Arthropod-Borne Bacterial Infections) ♦ Miscellaneous Bacteria Causing Human Infections ♦ **Virology** ♦ Introduction to Virology ♦ Basic Concepts of Viral Infections ♦ Bacteriophages ♦ Herpesviruses ♦ Pox and Other Viruses ♦ Adenovirus ♦ Picornavirus ♦ Reoviridae ♦ Orthomyxovirus ♦ Paramyxovirus, Pneumovirus and Rubella ♦ Arthropod- and Rodent-Borne Viral Infections ♦ Rhabdovirus and Other Viral and Prion Diseases ♦ Hepatitis Viruses ♦ Retrovirus ♦ Oncogenic Viruses and Other Miscellaneous Viruses ♦ Antiviral Chemotherapy and Immunoprophylaxis ♦ **Medical Mycology** ♦ Basic Mycology and Superficial Mycoses ♦ Systemic Fungal Infections ♦ Laboratory Diagnosis of Fungal Infections ♦ **Clinical Microbiology as Applied to Infectious Diseases** ♦ Diagnostic Microbiology ♦ Systemic Infections and Their Laboratory Diagnosis ♦ Emerging and Re-emerging Infections ♦ Health Care-Associated Infections ♦ Immunoprophylaxis ♦ Bacteriology of Water, Air, Milk and Food ♦ Biomedical Waste Management ♦ Quality Control and Recent Advances in Diagnostic Microbiology ♦ *Further Reading* ♦ *Index*

2020	680 pp.	Paperback
978-93-89211-43-6		₹ 1,095.00

Textbook of Basic and Clinical Immunology

Sudha Gangal & Shubhangi Sontakke

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Textbook of Medical Parasitology

• FORTHCOMING

Sumeeta Khurana

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

Abhishek Mewara

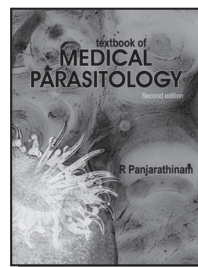
Assistant Professor, Department of Medical Parasitology, Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh, India

Textbook of Medical Parasitology is written as per the CBME guidelines prescribed by the National Medical Commission (NMC) for undergraduate and postgraduate students of medicine. It deals extensively with the commonly encountered infections in the Indian subcontinent as well as emerging infections and the various preventive measures that need to be adopted to control these infections. The structured format of chapters in this textbook, supported with clear illustrations of life cycles and numerous colour photographs, is designed to enhance students' comprehension of complex processes and concepts of parasitology.

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

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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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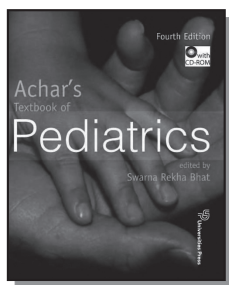
2007	392 pp.	Paperback
978-81-250-3159-8		₹ 675.00

NURSING

Achar's Textbook of Pediatrics (Fourth Edition)

Swarna Rekha Bhat (Ed.)

Formerly Professor and Head, Department of Pediatrics and Neonatology, St. John's Medical College, Bengaluru, India



Since the publication of the first edition in 1973, *Achar's Textbook of Pediatrics* has quickly established its reputation as one of the classic textbooks on the subject. In this, the fourth edition of the book, the content has been updated and revised to reflect current approaches and knowledge. New images, colour photographs, a CD with additional content and up-to-date tables

and graphs have also been added. This textbook is aimed at providing medical undergraduates with a solid grounding on the diseases, management and care of infants and children while also addressing the needs of and problems faced by today's adolescents.

Special Features: Updated information on all topics ♦ Algorithms for diagnosis: Approach to a patient ♦ Clinical features highlighted for easy access ♦ Colour photographs and illustrative figures to enhance the learning experience ♦ Free CD-ROM with additional text and illustrations for further learning ♦ Exam-oriented questions and case scenarios ♦ Further reading to expand the students' knowledge

Contents: Introduction to Pediatrics ♦ Clinical Evaluation of a Child ♦ Growth: Normal and Abnormal ♦ Nutrition: Normal Nutrition and Malnutrition ♦ Vitamins and Mineral Requirements and Deficiency Disorders ♦ Developmental Pediatrics ♦ Fluid, Electrolytes and Acid Base Disorders ♦ Pediatric Emergencies ♦ Genetics Disorders ♦ Inborn Errors of Metabolism ♦ Neonatology ♦ Infectious Diseases ♦ HIV Infection ♦ Disorders of Immunity and Allergy ♦ Immunisation ♦ Rheumatological Disorders of Childhood ♦ The Gastrointestinal System ♦ Hepatic Disorders ♦ The Respiratory System ♦ The Cardiovascular System ♦ Hematology and Oncology ♦ Renal Disorders ♦ The Central Nervous System ♦ The Endocrine System ♦ Neuromuscular Disorders ♦ Adolescent Medicine ♦ Community Pediatrics ♦ Diseases of the Skin ♦ Disorders of the Eye ♦ Disorders of the Ear, Nose and Throat ♦ Surgical Problems Specific to Children ♦ Environment and Child Health ♦ Ethical Issues ♦ Pediatric Procedures ♦ Principles of Drug Therapy ♦ *Appendix* ♦ *Index*

2009	704 pp.	Paperback
978-81-7371-654-6		₹ 995.00

Achar's Textbook of Pediatrics (Fifth Edition)

• FORTHCOMING

Swarna Rekha Bhat

Formerly Professor of Pediatrics and Head, Division of Neonatology, St John's Medical College Hospital, Bengaluru, India

www.universitiespress.com

Since the publication of the first edition in 1973, *Achar's Textbook of Pediatrics* has established itself as one of the classic textbooks on the subject. This fully revised Fifth Edition continues to provide updated coverage of the current approaches and practices in pediatrics. By closely following the recommendations of the competency-based medical curriculum, it ensures an integrated approach to pediatric care. The new format—four-colour page design, more illustrations, tabular compilation of information, and highlighted text—makes the book more reader-friendly and helps students to recognise, understand and recall concepts.

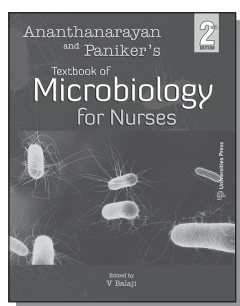
Special features:

- An algorithmic approach to identification, diagnosis, and treatment of conditions to aid clinical decision making
- Clinical features highlighted for easy access
- New/Expanded treatment of all topics
- Treatment of infectious diseases expanded to include current understanding on handling of pandemics
- More case studies included

**Ananthanarayan and Paniker's
Textbook of Microbiology for Nurses
(Second Edition)**

V Balaji (Ed.)

Professor and Head, Department of Clinical Microbiology, Christian Medical College and Hospital, Vellore, India



Ananthanarayan and Paniker's Textbook of Microbiology has, for several decades, been the gold standard text for medical students. Nurses need to have a compact, workable and translatable knowledge of Microbiology. This revised edition

addresses the needs of the nurse practitioner in the Indian scenario in the ever-changing and evolving face of Microbiology.

This book presents in greater detail the knowledge required by the nurse about a specific group of pathogens which generate the majority of a microbiologist's work. Systematic Bacteriology, Virology, Parasitology and Mycology have been suitably updated for an overall understanding.

The section on Clinical and Hospital Microbiology has been given thorough emphasis, with enhanced explanations and implementation of Barrier Nursing Care in view of the rise of MRSA and other hospital-acquired infections. Collection and Transport of Specimens according to strict guidelines deals with the practical knowledge and precautions to be exercised with the help of a comprehensive tabular column.

To encourage better understanding of the spread and mechanisms of infections, the chapter on Principles of Infection Control and Precautions in Patient Care outlines these for effective control, with a special Care Bundle for prevention of infection in the ICU.

The new chapter on Infective Syndromes provides a syndrome-based approach to the diagnosis of infections.

Special Features:

- Content reflects the appropriate changes in the 9th edition of *Ananthanarayan and Paniker's Textbook of Microbiology*
- Oriented to suit the needs of the BSc Nursing student, it enhances their understanding and helps them face the examination with confidence
- At a Glance at the beginning of each chapter gives a bird's eye view of the content
- Nursing Tips and Nursing Protocols included where relevant to help translate theory into bedside clinical application
- Syndrome-based approach to infections with flow charts for better understanding
- New illustrations and tabular columns for easy revision
- Essays, short notes and MCQs added

Contents: Section I Introduction to Microbiology

♦ Historical Introduction ♦ Structure and Function of Bacteria ♦ Bacterial Growth and Cultivation ♦ Microscopy and Staining ♦ Sterilisation and Disinfection ♦ Antimicrobial Chemotherapy ♦ Molecular Diagnosis in Microbiology ♦ **Section II Immunology** ♦ Infection and Immunity ♦ Overview

of the Structure and Functions of the Immune System
 ♦ Antigens and Antibodies ♦ Antigen–Antibody Reactions ♦ Hypersensitivity Reactions ♦ Vaccines and Immunisation ♦ **Section III Systematic Bacteriology and Systems-based Microbiology** ♦ Staphylococci ♦ Streptococci ♦ Bacillus and Clostridium ♦ Non-fermenting Gram-negative Bacilli ♦ Mycobacteria ♦ Spirochaetes ♦ Urinary Tract Infections ♦ Respiratory Tract Infections ♦ Meningitis ♦ Gastrointestinal Tract Infections ♦ Enteric Fever: Salmonella ♦ Bacillary Dysentery: Shigella ♦ Sexually Transmitted Infections ♦ Uncommon Bacterial Infections ♦ **Section IV Virology** ♦ General Properties of Viruses ♦ Hepatitis Viruses ♦ Human Immunodeficiency Virus and AIDS ♦ Poliomyelitis and Rabies ♦ Exanthematous Fevers and Viral Gastroenteritis ♦ Arboviruses and Emerging Viral Infections ♦ **Section V Parasitology** ♦ Protozoa ♦ Helminths ♦ **Section VI Mycology** ♦ Medical Mycology ♦ **Section VII Clinical and Hospital Microbiology** ♦ Normal Microbial Flora of the Human Body ♦ Microbiology of Water, Air, Milk, and Food ♦ Hospital-acquired Infections (Nosocomial Infections) ♦ Collection and Transport of Specimens for Microbiological Investigations ♦ Laboratory Diagnosis of Infectious Diseases ♦ Biomedical Waste Management ♦ Infection Control and Precautions in Patient Care ♦ Infective Syndromes ♦ Prevention of Infections in Healthcare Workers

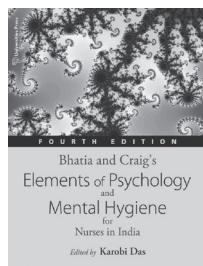
2016	340 pp.	Paperback
978-81-7371-997-4		₹ 495.00

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

NEW

Karobi Das (Ed.)

Department of Clinical Psychology, National Institute of Nursing Education, Postgraduate Institute of Medical Education and Research, Chandigarh, India



BD Bhatia and Margaretta Craig's *Elements of Psychology and Mental Hygiene for Nurses in India*

was originally published in 1958. It was the first book on psychology to specifically cater to the learning needs of nurses in India. For more than six decades, Bhatia and Craig's book has garnered the trust of Indian nurses, helping them to appreciate the complexities of the human mind and human behaviour and the role of psychology in providing efficient nursing care.

The fourth edition of the book is being brought out to accommodate the latest changes in the syllabus and to help nursing students keep abreast of the recent advancements in the field of psychology.

Special features

- Revised and updated to accommodate the syllabus prescribed by the Indian Nursing Council
- New subtopics added in keeping with recent developments in the field
- A new chapter added on Interpersonal Relationships and Communication
- Fresh, user-friendly presentation to help students assimilate and retain concepts
- Eye-catching illustrations and diagrams to help students visualise abstract topics
- Multiple choice questions at the end of each chapter to quickly assess understanding
- Renewed focus on correlating the theoretical knowledge of psychology to the practice of effective nursing
- Anecdotal critical thinking exercises to help students anticipate the challenges that may arise in their interactions with different kinds of patients
- Important terms and definitions placed in boxes to enable quick reference
- Last four years' question papers to help students prepare for their examinations

Contents: Foreword ♦ Preface to the Fourth Edition ♦ Acknowledgements ♦ Preface to the First Edition ♦ INC Syllabus ♦ The Nature and Scope of Psychology ♦ Methods of Psychology ♦ The Mind and the Body-Mind Relationship ♦ Genetics and Behaviour ♦ The Nervous System ♦ The Sense Organs, Muscles and Glands ♦ Attention and Perception ♦ Learning ♦ Memory ♦ Thinking ♦ Intelligence and Aptitude ♦ Motivation ♦ Frustration and Conflict ♦ Emotions and Stress ♦ Ego Defence Mechanisms ♦ Attitudes ♦ Personality ♦ Developmental Psychology ♦ Psychology

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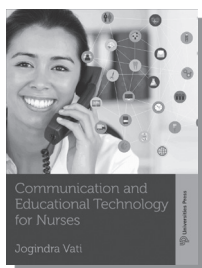
of Vulnerable Individuals ♦ Psychology of Groups ♦ Mental Health and Mental Hygiene ♦ Mental Illness—Symptoms, Causes and Treatment ♦ Guidance and Counselling ♦ Psychological Assessment and Tests ♦ Interpersonal Relationships and Communication

2019 384 pp. Paperback
978-93-86235-77-0 ₹ 495.00

Communication and Education 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 576 pp. Paperback
978-93-86235-61-9 ₹ 625.00

Essential Obstetrics: Textbook for Undergraduates

*Asha Oumachigui, S Soundara Raghavan
& S Habeebullah*

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Essentials of Human Genetics (Fifth Edition)

*Manu L Kothari, Lopa A Mehta
& Sadhana S Roychoudhury*

See page 1

Introduction to Medical Microbiology

R Ananthanarayan

Formerly Professor of Microbiology, Medical Colleges Calicut, Trivandrum and Gulbarga; Adviser to DHS (Kerala) on laboratory services

This basic textbook for nurses and paramedical personnel covers briefly and lucidly the essentials of medical microbiology and its related subjects: parasitology, entomology, mycology, immunology, bacteriology and virology. The book is illustrated with clearly labelled line-drawings, diagrams and photographs and the language is simple and

basic. Due emphasis has been given throughout to applied aspects and to problems special to the developing countries.

Contents: Introduction and History ♦ General Characteristics of Bacteria ♦ Sterilisation and Disinfection ♦ Infection ♦ Immunity ♦ Hypersensitivity and Autoimmunity ♦ Normal Microbial Flora of the Body ♦ Common Pathogenic Bacteria ♦ Bacilli ♦ Spirochaetes ♦ Mycoplasma ♦ Rickettsiae ♦ Chlamydiae ♦ Viruses ♦ Fungi ♦ Parasitology ♦ Entomology ♦ Rodents ♦ Chemotherapy and Chemoprophylaxis ♦ Nosocomial Infections ♦ Blood Transfusion ♦ The Bacteriology of Air ♦ The Bacteriology of Water ♦ The Bacteriology of Milk ♦ The Bacteriology of Food ♦ Immunoprophylaxis ♦ Collection and Transport of Specimens ♦ *Appendix 1: Period of incubation of common diseases* ♦ *Appendix 2: Examination of blood for parasites* ♦ *Appendix 3: Examination of stools for parasites* ♦ Index

1990 182 pp. Paperback
978-81-7371-638-6 ₹ 325.00

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

S Rathnakumar
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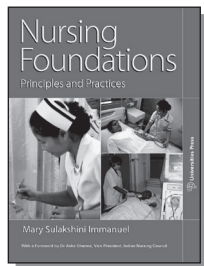
**Mudaliar and Menon's Clinical Obstetrics
(Twelfth Edition)**

*Sarala Gopalan, S Rathnakumar &
Vanita Jain (Eds)*

See page 29

**Nursing Foundations:
Principles and Practices**

Mary Sulakshini Immanuel
Formerly Dean, CON/Principal, Christian Medical
College/Miraj Medical College, Miraj, India



This book covers the complete undergraduate syllabus for Nursing Foundations prescribed by the Indian Nursing Council. The book will serve the purpose of an ideal text as well as a ready reference during clinical practice. The book is also useful for healthcare professionals and managers who would like to know how patients should be cared for. Nursing procedures are explained with step-by-step procedures, with emphasis on critical thinking. Learning objectives, essay questions, MCQs and short answer questions at the end of each chapter, a glossary of key terms and model question papers have been included.

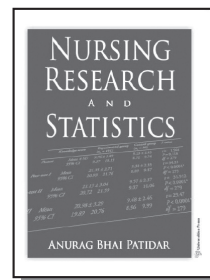
Contents: Introduction to Health ♦ Nursing—Professional Practice ♦ The Nursing Process ♦ Communications and the Nurse–Patient Relationship ♦ Admission, Transfer, Discharge and Documentation ♦ The Hospital Environment ♦ Mobility and Immobility, Range of Motion and Body Alignment ♦ Personal Hygiene ♦ Providing Comfort, Rest and Sleep ♦ Care of Equipment and Supplies ♦ Meeting Elimination Needs ♦ Meeting Nutritional Needs ♦ Meeting Psychosocial and Spiritual Needs ♦ Assessing Diagnostic Measures ♦ Application of Heat and Cold ♦ Administration of Medication ♦ Special Medical Procedures ♦ Special Surgical Procedures ♦ Fluid, Electrolyte and Acid–Base Imbalances: Basic Concepts and Intervention ♦ Meeting the Special Needs of Patients ♦ Nursing Care Plans ♦ *Model Question Papers* ♦ *Answer Key* ♦ *Index*

2014 656 pp. Paperback
978-81-7371-935-6 ₹ 625.00

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

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 ♦ Sources of Literature Review ♦ Electronic Sources ♦ Printed Sources ♦ Reviewing Literature ♦ Review Format ♦ Chapter 4: Research Approaches and

Designs ♦ Introduction to Research Approach/Design ♦ Definitions of Research Design ♦ Factors Influencing Selection of Design ♦ Research Approaches ♦ Quantitative Research ♦ Qualitative Research ♦ Mixed Methods Approach/Pragmatic Approach ♦ Participatory Approach/Action Research ♦ Research Designs ♦ Quantitative Research Designs ♦ Qualitative Research Designs ♦ Other Research Designs ♦ Chapter 5: Theoretical/Conceptual Framework ♦ Introduction to Theoretical/Conceptual Framework ♦ Definition of Terms ♦ Characteristics of Theories ♦ Significance of Theory ♦ Common Concepts in Nursing Theory ♦ 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 ♦ Introduction to Data Collection ♦ Developing the Data Collection Plan ♦ Questionnaires ♦ Interviews ♦ Observations ♦ Vignettes ♦ Projective Techniques ♦ Q Sorts ♦ Bio-physiological Methods ♦ Pilot Study ♦ Data Collection Procedure ♦ Chapter 8: Analysis of Data ♦ Introduction to Data Analysis ♦ Classification of Data ♦ Organisation of Data ♦ Tabulation of Data ♦ Graphical Presentation of Data ♦ Analysis and Interpretation of Data ♦ Chapter 9: Communication and Utilisation of Research ♦ Introduction to Communication of Findings ♦ How to Communicate Research Findings? ♦ Disseminating Research Results at Conferences ♦ Presenting a research poster ♦ Publishing a Journal Article ♦ Research Utilisation ♦ Barriers to Research Utilisation ♦ Facilitators of Research Utilisation ♦ Innovation Diffusion Model ♦ Chapter 10: Critiquing Research Articles/Reports ♦ 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

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978-81-7371-979-0		₹ 475.00

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.)

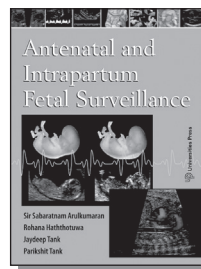
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Rohana Haththoutuwa (Ed.)

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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

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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*

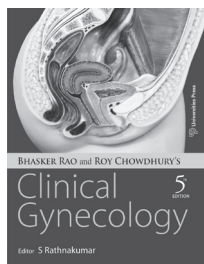
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2013	332 pp.	Paperback
978-81-7371-864-9		₹ 1,025.00

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

S Rathnakumar

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
978-93-86235-23-7		₹ 650.00

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

Asha Oumachigui

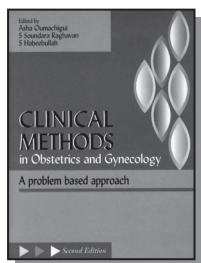
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The new edition of this book re-emphasises the skills that students must acquire: of gathering information through history taking and physical examination, and learning the art and science of interpreting data and selecting relevant investigations. 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 ♦

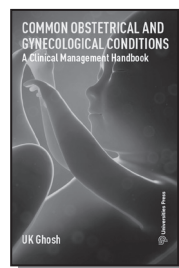
Gynecologic and obstetric examination ♦ Care during pregnancy ♦ Vomiting in pregnancy ♦ Vaginal bleeding in early pregnancy ♦ Recurrent pregnancy loss ♦ Breathlessness during pregnancy ♦ Fever during pregnancy ♦ Abdominal pain during pregnancy ♦ Jaundice in pregnancy ♦ Vaginal bleeding in late pregnancy ♦ 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*

2006	292 pp.	Paperback
978-81-7371-775-8		₹ 725.00

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

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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 PPRM ♦ 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*

2014	244 pp.	Paperback
978-81-7371-937-0		₹ 725.00

Essential Obstetrics: Textbook for Undergraduates

Asha Oumachigui

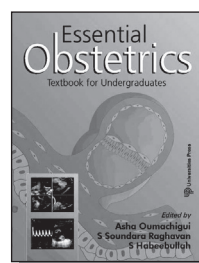
Formerly Director-Professor and Head, Department of Obstetrics and Gynecology, Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry, India

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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 ♦

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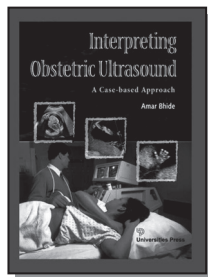
Abnormal Puerperium ♦ Hyperemesis Gravidarum
 ♦ Hypertensive Disorders ♦ Antepartum Hemorrhage ♦ Preterm Labour ♦ Prelabour Rupture of Membranes ♦ Prolonged Pregnancy ♦ Rhesus Isoimmunisation ♦ Fetal Growth Restriction ♦ Anemia ♦ Heart Disease ♦ Respiratory Disorders ♦ Diabetes Mellitus ♦ Thyroid Disease ♦ 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
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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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Management of Labour, The (Third Edition)

Sir Sabaratnam Arulkumaran

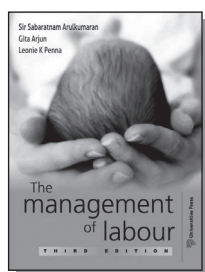
Professor Emeritus – St George's University of London; President, International Federation of Obstetrics & Gynecology (FIGO); formerly President, British Medical Association and Royal College of Obstetricians & Gynaecologists, UK

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Leonie Penna

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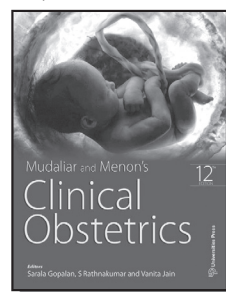
The management of labour is an important part of obstetric practice for the obstetrician and midwife alike. Although labour events are typically not complicated, many women develop problems resulting in maternal, fetal or neonatal morbidity and mortality. Hypoxia, trauma and infection are inherent risks. This multi-author volume draws on the work of specialists who are internationally recognised and have contributed extensively to studies in intrapartum and postpartum management including key areas such as intrapartum fetal monitoring, prolonged pregnancies, preterm births and neonatal resuscitation.

Contents: Physiopharmacology of labour ♦ The management of the first stage of labour ♦ Pain relief in labour ♦ Consent in labour ♦ Intrapartum fetal monitoring ♦ Uterine contractions ♦ The management of intrapartum fetal distress ♦ Fluid management in labour ♦ The management of the second stage of labour ♦ Operative vaginal delivery ♦ Shoulder dystocia ♦ Episiotomy ♦ Breech delivery ♦ Strategies to reduce the rate of cesarean sections ♦ Cesarean section: procedure and technique ♦ Vaginal birth after Cesarean delivery ♦ Antepartum hemorrhage ♦ The third stage of labour ♦ Management of postpartum hemorrhage ♦ Postpartum collapse ♦ The management and prevention of obstetric perineal trauma ♦ Prostaglandins in labour ♦ Induction of labour ♦ Prelabour rupture of membranes ♦ Preterm labour and delivery-management issues ♦ Prolonged pregnancy ♦ Prolonged and obstructed labour ♦ Peripartum hysterectomy ♦ Rupture of the uterus ♦ Management of severe preeclampsia and eclampsia ♦ Neonatal resuscitation and the management of immediate neonatal problems ♦ Complications of the puerperium

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Mudaliar and Menon's Clinical Obstetrics (Twelfth Edition)



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S Rathnakumar

Formerly Professor of Obstetrics and Gynecology, Institute of Social Obstetrics and Government K G Hospital for Women and Children, and Madras Medical College, Chennai, India

Vanita Jain

Professor, Department of Obstetrics and Gynecology, PGIMER, Chandigarh, India

Generations of undergraduate medical students have been familiar with *Mudaliar and Menon's Clinical Obstetrics*, a classic among textbooks. Originally written by Dr A.L. Mudaliar and Dr. M.K. Krishna Menon, the twelfth edition has been thoroughly updated and revised to keep abreast of the latest advances in obstetrics.

New Features:

- At a Glance section depicts the flow, order and sequence of the subject matter covered in each chapter.
- Figures and diagrams have been exhaustively revised with emphasis on clarity and visual impact.
- Algorithms facilitate easy understanding of the process.
- Content has been revised to incorporate evidence-based interventions.
- National and international guidelines have been used wherever indicated.
- Obstetric first aid and management of obstetric complications at the primary care level have been highlighted.

- Maternal and child health initiatives of the Government of India have been collated and presented for easy reference.

Contents: Section 1: Anatomy and Physiology

♦ The Pelvis ♦ The Female Organs of Generation ♦ Physiology of Ovulation and Menstruation ♦ Fertilisation of the Ovum and Development of Embryo ♦ **Section 2: Physiology of Pregnancy** ♦ Maternal changes due to Pregnancy ♦ Diagnosis of Pregnancy ♦ The Fetus in Normal Pregnancy ♦ Prenatal Care ♦ Drugs in Pregnancy ♦ Antepartum Fetal Surveillance ♦ **Section 3: Physiology of Labour and Puerperium** ♦ Causation and Stages of Labour ♦ The Mechanism of Labour ♦ Conduct of Normal Labour ♦ Intrapartum Surveillance ♦ Normal Puerperium ♦ **Section 4: Complications of Pregnancy** ♦ Hyperemesis Gravidarum ♦ Abortion ♦ Ectopic Pregnancy ♦ Hydatidiform Mole ♦ Anemia in Pregnancy ♦ Hypertensive Disorders of Pregnancy ♦ Antepartum Hemorrhage – Abruptio Placentae ♦ Antepartum Hemorrhage – Placenta Previa ♦ Preterm Birth ♦ Intrauterine Growth Restriction ♦ Prolonged Pregnancy ♦ Multiple Pregnancy ♦ Rhesus Isoimmunisation ♦ **Section 5: Diseases Complicating Pregnancy** ♦ Diseases of the Cardiovascular System ♦ Liver Diseases in Pregnancy ♦ Tuberculosis and Pregnancy ♦ Maternal Infections during Pregnancy ♦ Diabetes in Pregnancy ♦ Diseases of the Urinary System ♦ Tumours of the Uterus and Adnexa ♦ Surgical Emergencies during Pregnancy ♦ **Section 6: Abnormal Labour** ♦ Abnormal Fetal Presentations ♦ Transverse or Oblique Lie ♦ Breech Presentation and Compound Presentation ♦ Dystocia due to Anomalies of the Expulsive Forces ♦ Abnormalities of the Reproductive Tract ♦ Complications of the Third Stage of Labour ♦ Injuries to the Parturient Canal ♦ Puerperal Infection ♦ **Section 7: 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 8: Obstetric Operations** ♦ The Forceps ♦ Version and Destructive Operations ♦ Cesarean Section ♦ Induction of Labour ♦ **Section 9: Miscellaneous** ♦ Maternal Mortality ♦ Perinatal Mortality ♦ Coagulation Disorders in Obstetrics ♦ Imaging Techniques ♦ Prenatal Diagnosis ♦ Contraception ♦ Medical Termination of Pregnancy ♦ Government Programmes ♦ *Appendix 1: History-taking in Obstetrics* ♦ *Appendix 2: Normal Blood Values* ♦ *Appendix 3: Blood Transfusion in Obstetric*

Practise ♦ Appendix 4: Obstetric Instruments ♦ Answers to Questions ♦ Suggested Further Reading ♦ Index

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

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

Sarala Gopalan (Ed.)

Formerly Professor and Head, Department of Obstetrics and Gynecology, PGIMER, Chandigarh, India

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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Contents: Reproductive Health in Developing Countries ♦ Recurrent Pregnancy Loss ♦ Prenatal Diagnosis of Congenital Malformations ♦ Prenatal Care ♦ Sonography in First Trimester ♦ Antenatal Fetal Surveillance ♦ Anemia in Pregnancy ♦ Current Trends in the Management of Diabetic Pregnancies ♦ Thyroid Diseases in Pregnancy ♦ Heart Disease in Pregnancy ♦ Liver Disease in Pregnancy ♦ Tropical Diseases in Pregnancy ♦ Viral Infections in Pregnancy ♦ HIV in Pregnancy ♦ Autoimmune Diseases in Pregnancy ♦ Thrombophilia in Pregnancy ♦ Hemoglobinopathies in Pregnancy ♦ Drugs in Pregnancy ♦ Multiple Pregnancy ♦ Prolonged Pregnancy ♦ Pre-eclampsia and Eclampsia ♦ Antepartum Hemorrhage ♦ Low Birth Weight Babies ♦ Preterm Labour ♦ Prelabour Rupture of Membranes ♦ Management of Spontaneous Labour ♦ Induction of Labour ♦ Intrapartum Assessment of Fetal Health ♦ Current Management of Breech Presentation ♦ Instrumental Vaginal Deliveries ♦ Obstructed Labour ♦ Postpartum Hemorrhage ♦ Anesthesia and Analgesia in Obstetrics ♦ Perinatal Asphyxia ♦ Thromboembolic Disorders ♦ Doppler Sonography ♦ Malignancy and Premalignancy of Genital Tract in Pregnancy ♦ Postpartum Maternal Collapse ♦ Fetal Therapy ♦ Controversies in Obstetrics ♦ *Index*

2009	604 pp.	Paperback
978-81-7371-661-4		₹ 1,350.00

Obstetrics and Gynecology for Postgraduates (Volume II) (Third Edition)

Sir Sabaratnam Arulkumaran (Ed.)

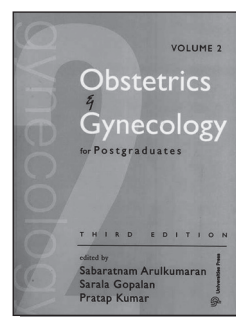
Professor Emeritus – St George’s University of London; President, International Federation of Obstetrics & Gynecology (FIGO); formerly President, British Medical Association and Royal College of Obstetricians & Gynaecologists, UK

Sarala Gopalan (Ed.)

Formerly Professor and Head, Department of Obstetrics and Gynecology, PGIMER, Chandigarh, India

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*

2010 692 pp. Paperback
978-81-7371-691-1 ₹ 1,350.00

Practical Guide to Obstetrics, A: Cost-effective, Evidence-based, Safe Care

Gita Arjun (Ed.)

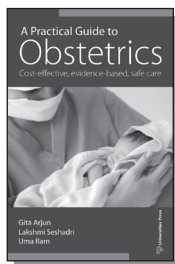
Director, E V Kalyani Medical Foundation Pvt Ltd,
Chennai, India

Lakshmi Seshadri (Ed.)

Formerly Professor and Head, Department of
Obstetrics and Gynecology, Christian Medical College
and Hospital, Vellore, India

Uma Ram (Ed.)

Director and Consultant Obstetrician and Gynecologist,
Seethapathy Clinic and Hospital, Chennai, India



A Practical Guide to Obstetrics is the perfect handbook for all doctors dealing with childbirth. Practitioners and postgraduates will turn to this book for evidence-based protocols and systems which will guide them in the management of

obstetric problems.

This book will become the well-thumbed reference book for any practitioner of obstetrics who wants to know the correct procedure to follow in a particular obstetric situation. To this end, the unique format used makes for easy reading. Practice points have been highlighted and are easy to assimilate.

Cost-effective and safe evidence-based practices have been compiled to equip the practising clinician with the knowledge that is necessary to deal with obstetric emergencies. It is a boon to the practitioner who often has limited time to spend on reading scientific literature, analysing the evidence and interpreting it correctly.

The coverage of topics is exhaustive and follows in a chronological order from the perinatal to the postpartum period. Several of the contributors are pioneers in their field, and have shared the knowledge derived from their experience. Evidence-based practice points are highlighted for easy reading.

Contents: *Preface* ♦ *Foreword* ♦ **Section I: Preconception and Antenatal Care** ♦ Preconception Checklist for Women Planning Pregnancy ♦ The Booking Visit ♦ Follow-Up Antenatal Visits ♦ Common Problems in Pregnancy ♦ Prenatal Screening and Invasive Prenatal Testing for Aneuploidy ♦ Antepartum Fetal Health Surveillance ♦ **Section II: Screening and Management of Medical Problems in Pregnancy** ♦ Hypertensive Disorders in Pregnancy ♦ Diabetes in Pregnancy – Screening, Diagnosis and Management ♦ Anemia in Pregnancy ♦ Implications of Obesity in Pregnancy ♦ Thyroid Disorders and Pregnancy ♦ Antiphospholipid Syndrome and its Impact on Pregnancy ♦ Inherited Thrombophilias in Pregnancy ♦ Infections in Pregnancy ♦ Intrahepatic Cholestasis of Pregnancy ♦ Management of Rh Alloimmunisation in Pregnancy ♦ Management of Pregnancy in a Patient with HIV ♦ Approach to Acute Abdominal Pain in the Pregnant Woman ♦ **Section III: Ultrasound in Obstetrics** ♦ Ultrasound Evaluation of First Trimester Pregnancy Complications ♦ Ultrasound in the First Trimester: Maximising the Information ♦ Ultrasound in the Second Trimester: Examination and Reporting ♦ Indications for Third Trimester Ultrasound Examination ♦ The Use of Doppler in Obstetrics ♦ **Section IV: Obstetric Complications** ♦ Preterm Labour and Preterm Prelabour Rupture of Membranes ♦ Management

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of Postterm Pregnancy ♦ Shoulder Dystocia ♦ Antepartum Hemorrhage ♦ Multiple Pregnancy ♦ Intrauterine Growth Restriction ♦ Late Intrauterine Fetal Death ♦ Fibroids ♦ Pregnancy in Women with Polycystic Ovary Syndrome ♦ Management of Pregnancy after Assisted Reproductive Technology ♦ Prophylactic Antibiotics in Obstetrics ♦ **Section V: Management of Labour** ♦ Episiotomy ♦ Pain Relief in Labour ♦ Induction of Labour ♦ Intrapartum Fetal Surveillance ♦ Management of Intrapartum Fetal Distress ♦ Operative Vaginal Delivery ♦ Breech Delivery ♦ Cesarean Section: Procedure and Technique ♦ Vaginal Birth after a Cesarean Section ♦ **Section VI: Complications in Labour** ♦ Management of Postpartum Hemorrhage ♦ Management of Obstetric Anal Sphincter Injuries ♦ Prolonged and Obstructed Labour ♦ Uterine rupture and uterine inversion ♦ Peripartum Critical Illness and Collapse ♦ *Index*

Available in print and e-book formats.
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2013	712 pp.	Paperback
978-81-7371-897-7		₹ 1,095.00

Practical Guide to Obstetrics, A

(Second Edition)

• FORTHCOMING

Gita Arjun

Formerly Director, E V Kalyani Medical Foundation Pvt Ltd, Chennai, India

This handbook for postgraduates and practitioners of obstetrics dealing with cost-effective, evidence-based, safe practices in the management of obstetric problems has been made more comprehensive and richer in its scope in this Second Edition with the inclusion of 10 new chapters on the topics of medical termination of pregnancy, reducing cesarean section rates, evidence-based approach to episiotomy, and obstetric emergencies.

OBSTETRICS AND GYNECOLOGY IN PERSPECTIVE

The series has grown out of the need of practicing consultants and postgraduate students for reference material which addresses recent knowledge on subjects of critical interest. The volumes draw on the work of specialists. They aim to offer a review of recent literature and clinical

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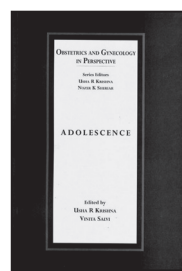
Adolescence

Usha R Krishna (Ed.)

Consultant Obstetrician and Gynecologist, Breach Candy, Bhatia General and Jaggivanram 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.

Contents: Reproductive Health in Childhood and Adolescence ♦ Normal Puberty ♦ Sexual Precocity ♦ Delayed Sexual Maturation ♦ Intersex ♦ Intersex – Surgical Management ♦ Amenorrhea ♦ Menstrual Dysfunction ♦ Hyperandrogenism in Adolescence ♦ Infections in Adolescence ♦ Genital Tract Neoplasms in Adolescent Girls ♦ Sexuality, Contraception and Pregnancy

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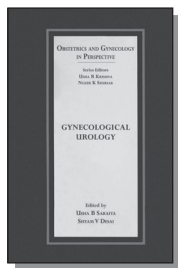
Gynecological Urology

Usha B Saraiya

Consultant, Sir HN Hospital and Cama & Albless Hospital, Mumbai, India

Shyam V Desai

Lecturer, N Wadia Maternity Hospital and Grant Medical College, Mumbai, India



This book is meant for gynecologists and postgraduate students. It deals with urinary system related problems in women. These are the most common problems in women and are often ignored. This book brings together two specialities, gynecology and urology. The contributors to this volume are drawn from across the world. There is specific focus on the third-world context. This volume brings together opinions on the management of the various types of dysfunction.

Contents: Anatomy and Physiology of the Urinary Tract ♦ Imaging in Urogynecology ♦ Urodynamics Studies in Menopausal Women ♦ Bacteriology of Urinary Tract Infections in Women ♦ Urinary Tract Infection in Women ♦ Phase Contrast Microscopy in Recurrent Urinary Tract Infection ♦ Urogenital Problems in Menopausal Women ♦ Unstable Bladder ♦ Stress Urinary Incontinence – Clinical Features and Conservative Management ♦ Stress Urinary Incontinence – Surgical Management ♦ Stress Urinary Incontinence – Endoscopic Procedures ♦ Incontinence in the Girl Child – Diagnosis and Treatment ♦ Urological Injuries in Gynecology ♦ Genitourinary Fistulas ♦ Renal Transplantation in Women ♦ Fascia Lata Sling with Bone Anchor Fixation ♦ Pubic Bone Anchoring

2001 192 pp. Paperback
978-81-250-2018-9 ₹ 325.00

Menopause

(Second Edition)

Usha R Krishna (Ed.)

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

Duru Shah (Ed.)

Consultant Gynecologist, Mumbai, India

This book views the subject in the context of endocrine changes, climacteric disturbances and problems related to premature menopause.

Contents: The Ageing Ovary and Endocrine Changes ♦ Staging, Symptoms and Urological Problems in the Climacteric ♦ Osteoporosis ♦ Cardiovascular and Metabolic Changes and Hormone Replacement Therapy ♦ Premature Menopauses ♦ Hormone Replacement Therapy ♦ Phytoestrogens ♦ Hormone Replacement Therapy and Cancer ♦ Controversies in Hormone Replacement Therapy ♦ *Appendix ♦ Index*

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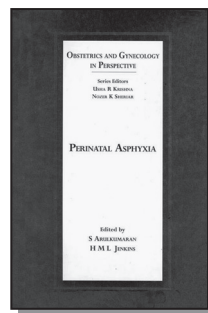
Perinatal Asphyxia

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

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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Contents: Perinatal Asphyxia: An Overview ♦ Confidential Enquiries into Stillbirths and Deaths in Infancy The Lessons Learnt ♦ Assessment of Fetal Growth ♦ Antepartum Fetal Assessment ♦ Doppler Velocimetry in the Detection of Perinatal Asphyxia ♦ Cardiotocography in the Detection of Intrapartum Asphyxia ♦ Fetal ECG Waveform Analysis during Labour ♦ Fetal Pulse Oximetry ♦ Biochemical Monitoring of Intrapartum Asphyxia ♦ Oxygen in the Fetus - Friend or Foe ♦ Perinatal Asphyxia in Multiple Pregnancies ♦ Hypoxia Induced Free Radical disease in the Neonatal Period ♦ Hypoxia Induced Free Radical Disease in the Neonatal Period ♦ Unmet Needs and Challenges in the Developing World ♦ Management of Clinical Risk ♦ *Appendixes ♦ Index*

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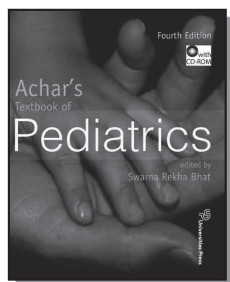
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PEDIATRICS AND CHILD CARE

Achar's Textbook of Pediatrics (Fourth Edition)

Swarna Rekha Bhat (Ed.)

Formerly Professor and Head, Department of Pediatrics and Neonatology, St. John's Medical College, Bengaluru, India



Since the publication of the first edition in 1973, *Achar's Textbook of Pediatrics* has quickly established its reputation as one of the classic textbooks on the subject. In this, the fourth edition of the book, the content has been updated and revised to reflect current approaches and knowledge. New images, colour photographs, a CD with additional content and up-to-date tables and graphs have also been added. This textbook is aimed at providing medical undergraduates with a solid grounding on the diseases, management and care of infants and children while also addressing

the needs of and problems faced by today's adolescents.

Special Features: Updated information on all topics ♦ Algorithms for diagnosis: Approach to a patient ♦ Clinical features highlighted for easy access ♦ Colour photographs and illustrative figures to enhance the learning experience ♦ Free CD-ROM with additional text and illustrations for further learning ♦ Exam-oriented questions and case scenarios ♦ Further reading to expand the students' knowledge

Contents: Introduction to Pediatrics ♦ Clinical Evaluation of a Child ♦ Growth: Normal and Abnormal ♦ Nutrition: Normal Nutrition and Malnutrition ♦ Vitamins and Mineral Requirements and Deficiency Disorders ♦ Developmental Pediatrics ♦ Fluid, Electrolytes and Acid Base Disorders ♦ Pediatric Emergencies ♦ Genetics Disorders ♦ Inborn Errors of Metabolism ♦ Neonatology ♦ Infectious Diseases ♦ HIV Infection ♦ Disorders of Immunity and Allergy ♦ Immunisation ♦ Rheumatological Disorders of Childhood ♦ The Gastrointestinal System ♦ Hepatic Disorders ♦ The Respiratory System ♦ The Cardiovascular System ♦ Hematology and Oncology ♦ Renal Disorders ♦ The Central Nervous System ♦ The Endocrine System ♦ Neuromuscular Disorders ♦ Adolescent Medicine ♦ Community Pediatrics ♦ Diseases of the Skin ♦ Disorders of the Eye ♦ Disorders of the Ear, Nose and Throat ♦ Surgical Problems Specific to Children ♦ Environment and Child Health ♦ Ethical Issues ♦ Pediatric Procedures ♦ Principles of Drug Therapy ♦ *Appendix ♦ Index*

2009	704 pp.	Paperback
978-81-7371-654-6		₹ 995.00

Achar's Textbook of Pediatrics (Fifth Edition)

• FORTHCOMING

Swarna Rekha Bhat

Formerly Professor of Pediatrics and Head, Division of Neonatology, St John's Medical College Hospital, Bengaluru, India

Since the publication of the first edition in 1973, *Achar's Textbook of Pediatrics* has established itself as one of the classic textbooks on the subject. This fully revised Fifth Edition continues to provide updated coverage of the current approaches and practices in pediatrics. By closely following the recommendations of the competency-based medical curriculum, it ensures an integrated

approach to pediatric care. The new format—four-colour page design, more illustrations, tabular compilation of information, and highlighted text—makes the book more reader-friendly and helps students to recognise, understand and recall concepts.

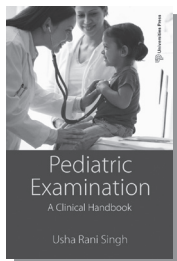
Special features:

- An algorithmic approach to identification, diagnosis, and treatment of conditions to aid clinical decision making
- Clinical features highlighted for easy access
- New/Expanded treatment of all topics
- Treatment of infectious diseases expanded to include current understanding on handling of pandemics
- More case studies included

Pediatric Examination: A Clinical Handbook

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.

Salient Features:

- Eleven chapters divided according to the systems to be examined.
- Appendix summarising the biochemical parameters and their reference values.
- Information about relevant history to be documented, examination pertaining to the particular system and the clinical signs to look out for.
- Handy tips to make babies and children feel comfortable during examination.

- 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.
- Highlighted colour boxes to emphasise important nuggets of information and to reinforce positive clinical practices and discourage undesirable ones.
- A total of 71 illustrations and 103 four-colour images to clearly demonstrate the examination techniques and anomalies to look out for.
- Twenty-one tables to capture various signs and symptoms in a nutshell.
- Anecdotes/acronyms/mnemonics included, where appropriate, to assist the students in memorising relevant facts.
- Convenient dimensions so that this book may be carried in the pockets of the students' white coats, to be referred to repeatedly.
- 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*

2018	264 pp.	Paperback
978-93-86235-59-6		₹ 650.00

Pediatric Endocrine Disorders

(Third Edition)

Meena P Desai

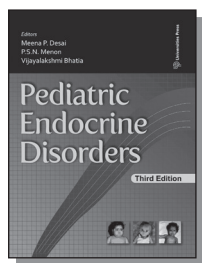
Visiting Consultant, Endocrinology Division, B J Wadia Hospital for Children and Institute of Child Health and Research Centre, Mumbai, India

P S N Menon

Consultant and Head, Department of Pediatrics, Jaber Al-Ahmed Armed Forces Hospital, Kuwait

Vijayalakshmi Bhatia

Professor, Department of Endocrinology, Sanjay Gandhi PGI, Lucknow, India



This book is the first comprehensive description of endocrine disorders in the pediatric age group compiled in India. One of the main aims of this book is to provide a practical and simple approach to the diagnosis and management of common endocrine problems in clinical practice. It is hoped that this edition will be of use to practicing pediatricians, postgraduates and other health professionals in the early diagnosis and effective management of endocrine disorders in infancy, childhood and adolescence. Practical management of common pediatric endocrine problems is dealt with in detail. New information in this field has also been incorporated.

The contributors to this volume are experts in their respective fields and are drawn from India and other countries.

Contents: Contributors ♦ Preface to Third Edition ♦ Preface to Second Edition ♦ Preface to First Edition ♦ Colour Plates ♦ Fundamentals of Pediatric Endocrinology ♦ Molecular Basis of Pediatric Endocrinopathies ♦ Fetal and Neonatal Endocrinology ♦ Normal and Abnormal Growth ♦ Disorders of Growth Hormone Production and Action ♦ Disorders of Pubertal Development ♦ Turner Syndrome ♦ Disorders of the Thyroid Gland ♦ The Adrenal Glands ♦ Disorders of Sex Development ♦ Disorders of Water, Electrolyte and Acid–Base Homeostasis ♦ Diabetes Mellitus ♦ Hypoglycemia in Infancy and Childhood ♦ Childhood Obesity ♦ Disorders of Calcium, Phosphorus and Bone Metabolism ♦ Polyglandular Endocrine Syndromes ♦ Endocrine Consequences of Systemic Disorders ♦ Principles of Hormone Measurement ♦ Index

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2014	520 pp.	Paperback
978-81-7371-913-4		₹ 1,250.00

PHARMACY

Ananthanarayan and Paniker's Textbook of Microbiology (Eleventh Edition)

Reba Kanungo
See page 16

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

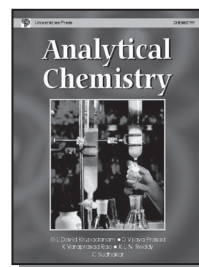
Reader in Chemistry, New Science College, Ameerpet, Hyderabad, India

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.

Contents: Evaluation of Analytical Data ♦ Separation Methods: Solvent Extraction ♦ Separation Methods: Chromatography ♦ Instrumental Methods of Analysis: UV-Visible Spectroscopy ♦ Analysis of Water ♦ *Index*

2001	216 pp.	Paperback
978-81-7371-385-9		₹ 475.00

**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

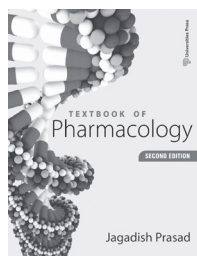
See page 2

Textbook of Pharmacology
(Second Edition)

© NEW

Jagdish Prasad

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



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.

Key features

- Simple and comprehensible style
- Fifty-eight revised and updated chapters dealt with under 12 sections
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- Important concepts highlighted or given as boxed items
- A summary at the end of each chapter as “Recap”
- One or more clinical case studies in each chapter
- Multiple choice questions with answer key and short-answer questions
- Six Appendices dealing with important topics including Prescription Writing and Antibiotic Stewardship Program

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** ♦

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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, H1 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, and Other Antibiotic Agents ♦ Chemotherapy of Tuberculosis and Leprosy ♦ Chemotherapy of Protozoal Infections ♦ Antiviral Agents and Anti-HIV Drugs ♦ Antifungal Agents ♦ Anthelmintic Agents ♦ Cancer Chemotherapy ♦ **SECTION 8: Endocrine Disorders and Therapeutic Considerations** ♦ Hypothalamic–Pituitary Hormones ♦ Adrenocorticotropic Hormones and Adrenocortical Steroids ♦ Thyroid Hormones and Antithyroid Drugs ♦ Ovarian Hormones ♦ Androgens and Antiandrogens ♦ Pancreatic Hormones and Antidiabetic Drugs ♦ Drugs Affecting Bone Mineral Metabolism ♦ **SECTION 9: The Hemopoietic System** ♦ Drugs for Iron-Deficiency Anemia ♦ Drugs for Megaloblastic Anemia, Hemopoietic Growth Factors ♦ Blood Coagulation Disorders ♦ **SECTION 10: The Respiratory System** ♦ Drugs for Respiratory Disorders ♦ **SECTION 11: Drugs for Gastrointestinal Disorders** ♦ Drug Treatment of Acid Peptic Disorders ♦ Antiemetic Drugs ♦ Drugs for Motility Disorders, Purgatives and Laxatives, Antidiarrheal Agents, and Drug Treatment of Irritable Bowel Syndrome and Inflammatory Bowel Disease ♦ **SECTION 12: Miscellaneous Topics** ♦ Drug Therapy of Hyperlipidemia ♦ Intravenous Fluid

Therapy ♦ Immune Pharmacology ♦ Therapeutic Considerations of Toxic Disorders ♦ Dermatological Pharmacology ♦ Drugs Acting on the Uterus ♦ Drug Use During Pregnancy ♦ The Vitamins ♦ *Appendices* ♦ Prescription Writing ♦ Antibiotic Stewardship Program (ASP) ♦ IAP Immunization Timetable 2016 ♦ Drug Regulations, Acts, and other Legal Aspects ♦ Clinical Laboratory Tests—Reference Values ♦ Essential Drugs for Regular and Emergency Use ♦ *Index*

2019	908 pp.	Paperback
978-93-86235-74-9		₹ 1,250.00

Drugs

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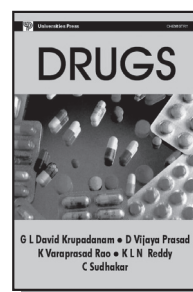
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K L N Reddy

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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

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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.

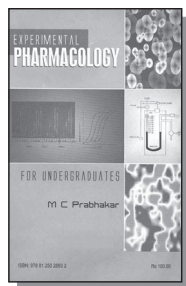
Contents: Introduction ♦ Pharmacodynamic agents ♦ Vitamins, hormones, synthetic and natural drugs ♦ Formulation of drugs ♦ *Bibliography* ♦ *Glossary* ♦ *Index*

2001	168 pp.	Paperback
978-81-7371-386-6		₹ 475.00

Experimental Pharmacology for Undergraduates

M C Prabhakar

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



The book is a compilation of all the concepts necessary for undergraduate students of pharmacology (in pharmacy and veterinary sciences colleges). This is the first book; the second book is for postgraduates. The book for undergraduates covers the basics of pharmacology and the one for postgraduates takes up specialised topics and experiments. Both books emphasise understanding of the subject and give explanations of phenomena where necessary. The books also

give the student practical tips that would be useful in the laboratory setting.

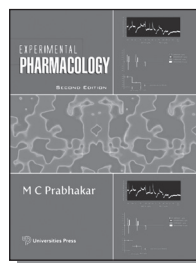
Contents: General Concepts ♦ Dose – Response Curve ♦ Agonists and Antagonists ♦ Introduction to the Autonomic Nervous System (ANS) ♦ Experiments on Frog ♦ Experiments on Rat ♦ Bioassays ♦ Identification of an Unknown Compound ♦ Guide to Drug Doses in Laboratory Animals ♦ *Bibliography*

2007	96 pp.	Paperback
978-81-7371-659-1		₹ 195.00

Experimental Pharmacology

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)

2013	248 pp.	Paperback
978-81-7371-820-5		₹ 550.00

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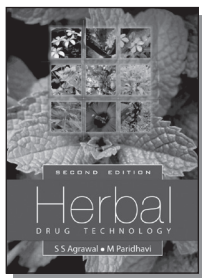
Herbal Drug Technology (Second Edition)

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

Contents: Introduction to Medicinal Plants ♦ Indian Systems of Medicine ♦ Herbal Therapeutics: From Ancient Times to the 21st Century ♦ Essentials of Crude Drugs ♦ Medicinal Botany ♦ In vitro Culture

of Medicinal Plants: Tissue Culture ♦ Systematic Examination of Powdered Drugs ♦ Application of Chromatography and Spectroscopy in Plant Drug Analysis ♦ Extraction, Isolation and Analysis of Phytopharmaceuticals ♦ Screening Methods Used for Herbal Drugs ♦ Standardisation of Herbal Drugs ♦ Herbal Formulations: A Comparative Study of Ayurvedic and Modern Dosage Forms ♦ Herbal Cosmetics ♦ Nutraceuticals: A Modern Approach ♦ Chemotaxonomy ♦ The Role of Literature Search in Medicinal Plant Research ♦ Patenting of Herbal Drugs ♦ *Index* ♦ *List of Plates: Plate 1a: Callus culture* ♦ *Plate 1b: Plantlets formed from callus culture* ♦ *Plate 2: Shoot elongation and rooting of in vitro regenerated shoots* ♦ *Plate 3: Plantlets acclimatised to greenhouse conditions* ♦ *Plate 4: Immobilised beads*

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Indian Medicinal Plants: A Compendium of 500 Species

P K Warriar, V P K Nambiar & C Ramankutty

See page 4

Introduction to Ayurveda, An

M S Valiathan

See page 5

Legacy of Caraka, The

M S Valiathan

See page 5

Legacy of Susruta, The

M S Valiathan

See page 6

Legacy of Vagbhata, The

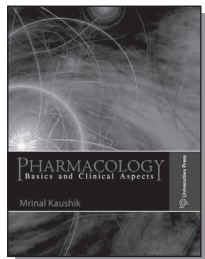
M S Valiathan

See page 7

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	752 pp.	Paperback
978-81-7371-694-2		₹ 1,025.00

Textbook of Clinical Pharmacy Practice (Second Edition)

G Parthasarathi (Ed.)

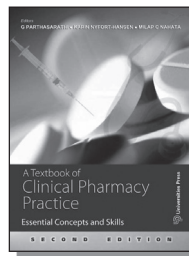
Dean, Faculty of Pharmacy; Professor, Pharmacy Practice, J S S University, Mysore, India

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

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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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2012 596 pp. Paperback
978-81-7371-756-7 ₹ 750.00

Textbook of Industrial Pharmacognosy

Anusuya R Kashi

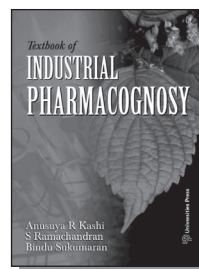
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Department of Pharmaceutical Chemistry, Mohamed Sathak AJ College of Pharmacy, Chennai, India

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

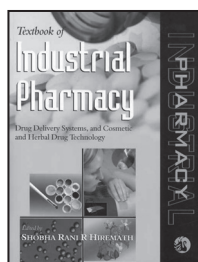
Available in print and e-book formats.
For details, visit www.universitiespress.com

2012 244 pp. Paperback
978-81-7371-754-3 ₹ 575.00

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

Shobha Rani R Hiremath

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 ♦ Six full-colour plates ♦ Numerous examples to improve comprehension ♦ Key points and self-assessment questions

Contents: Section I: Drug Delivery and Industrial Pharmacy ♦ Introduction to Novel Drug Delivery Systems ♦ Controlled Drug Delivery Systems ♦ Transdermal Drug Delivery Systems ♦ Ocular Drug Delivery systems ♦ Nasal Drug Delivery Systems ♦ Buccal Drug Delivery Systems ♦ Implant Drug Delivery Systems ♦ Targeted Drug Delivery Systems ♦ Liposome ♦ Niosomes ♦ Microspheres ♦ Nanoparticles ♦ Methods of Enhancing Bioavailability

of Drugs ♦ Pilot Plant and Scale – Up ♦ Optimisation Techniques in Pharmaceutical Formulation and Processing ♦ Process Validation ♦ Pollution Control and Effluent treatment in Pharmaceutical Industries ♦ **Section II: Cosmetic Technology** ♦ Raw Materials Used in Cosmetics ♦ Cosmeceuticals ♦ Formulation of Cosmetics ♦ Herbal Cosmetics ♦ Quality control of Cosmetics ♦ Safety and Efficacy of cosmetics ♦ Stability Testing ♦ Regulatory Aspects of Cosmetics ♦ **Section III: Herbal Drug Technology** ♦ Natural Products and Drug Discovery – A Perspective ♦ Introduction to Isolation, Identification and Estimation of lead Compounds from Natural Products ♦ Quality Control and Standardisation of Herbal Drugs – An Overview

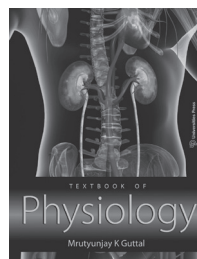
2008	464 pp.	Paperback
978-81-7371-639-3		₹ 725.00

PHYSIOLOGY

Textbook of Physiology

Mrutyunjay Kumar Guttal

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



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.

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- 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.

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 NEW

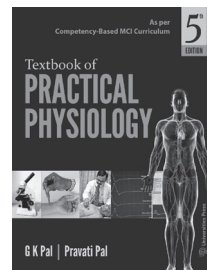
(Fifth Edition)

G K Pal

Professor (Senior Scale), Department of Physiology, JIPMER, Puducherry, India

Pravati Pal

Professor and Head of Physiology, JIPMER, Puducherry, India



First published in 2001, this fifth edition of the *Textbook of Practical Physiology* has been considered the most reliable book on practical physiology for medical students in India and abroad for over two decades. It is up to date in all aspects of applied and clinical physiology and provides medical students with the requisite knowledge and skills in these areas. The various sections of this book including those on hematology, human experiments and clinical physiology have been thoroughly revised

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in light of the new competency-based integrated curriculum prescribed by the Medical Council of India in 2019. The book is specially designed for step-by-step learning through practicals and experiments, which are vital to medical students seeking to develop expertise in clinical medicine. The learning objectives in each chapter have been divided into 'Must Know' and 'Desirable to Know' categories. The information on clinical examination has been grouped separately under one section to emphasize the growing need for clinical physiology in medicine. This fifth edition features numerous illustrations that have been meticulously revised, re-drawn and re-represented to facilitate the easy assimilation of techniques. Several new colour photographs have been added across the book to demonstrate the methodology of conducting the practical tests. More than 200 of such photographs and figures have been included in this edition. The new, contemporary four-colour design of this edition will appeal to students and aid in reading and retention.

Contents: Acknowledgements ♦ Preface to the Fifth Edition ♦ Preface to the First Edition ♦ Special Features of this Book ♦ General Laboratory Instructions ♦ Methodology of OSPE ♦ Competency Mapping Table ♦ **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 (Cooke-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 ♦ Reticulocyte Count ♦ Determination of Specific Gravity of Blood ♦ **Section II Human Experiments** ♦ **Respiratory System** ♦ Stethography ♦ Vitalography and Effect of Posture on Vital Capacity ♦ Pulmonary Function Tests and Spirometry ♦ Cardiopulmonary Resuscitation ♦ Body Composition Analysis and Assessment of Basal Metabolic Rate ♦ **Cardiovascular System** ♦ Electrocardiography ♦ 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 and Cardiac Efficiency Tests ♦ **Nerve and Muscle** ♦

Nerve Conduction Study ♦ Electromyography ♦ Mosso's Ergography 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 ♦ Visual Acuity and Colour Vision ♦ Hearing Tests ♦ 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) ♦ **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 and 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 ♦ 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 ♦ *Index of Normal Values* ♦ *Bibliography* ♦ *Index*

2020	528 pp.	Paperback
978-93-89211-64-1		₹ 725.00

Textbook of Practical Physiology for Dental Students (Second Edition)

G K Pal

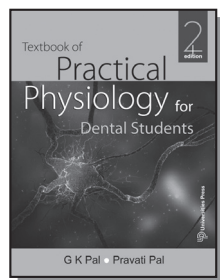
Dean, JIPMER, Karaikal; Professor and Head,

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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 ♦ Arneht 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 Practical** ♦ *General Principles of Clinical Examination* ♦ *General Examination* ♦ *Respiratory System* ♦ *Stethography* ♦ *Clinical Examination*

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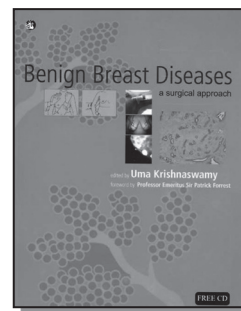
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SURGERY

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

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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 breast disorders and diseases have been included.

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• FORTHCOMING

Stanley Mathew

Professor of Surgery, Department of General Surgery,
Kasturba Medical College, Manipal, India

Over the last few decades, the knowledge, teaching and practice of medicine has undergone a sea change. The field of clinical surgery is no exception to this transformation. While the basic tenets of clinical surgery remain unchanged, there has been a perceptible shift from an approach that relied only on clinical diagnoses to one that lays stress on investigations to confirm the diagnosis before prescribing treatment. The second edition of *Essential Clinical Surgery* has been conceptualised for undergraduate medical students and postgraduate students of General Surgery to equip them with the skills and knowledge to elicit history and physical signs without ambiguity and to provide them the most up to date clinical material relevant to the practice of clinical surgery in India.

Special features:

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ENCYCLOPAEDIA

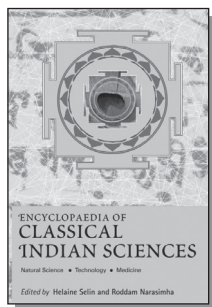
Encyclopaedia of Classical Indian Sciences

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 ♦ Vakyakara ♦ 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

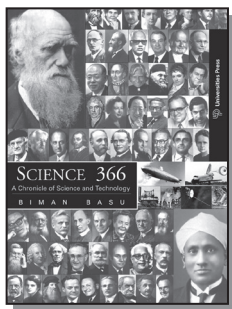
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2007	492 pp.	Hardback
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Science 366: A Chronicle of Science and Technology

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.

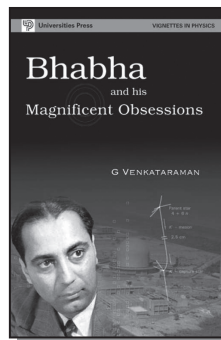
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BIOGRAPHIES

Bhabha and His Magnificent Obsessions

G Venkataraman



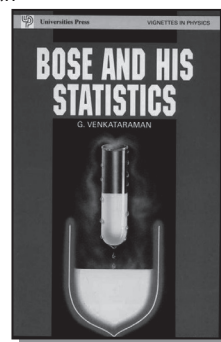
This book is about the remarkable scientist Homi Jehangir Bhabha who, at the age of eighteen, went to Cambridge to study physics and started his research career there. In 1939, when Bhabha came to India on a short vacation, he was forced to stay on as the Second World War broke out. This was, of course, 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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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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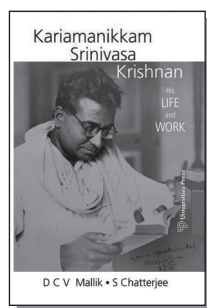
Kariamanikkam Srinivasa Krishnan: His Life and Work

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

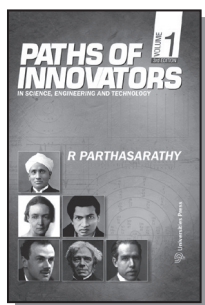
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Paths of Innovators, Volume 1

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 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.

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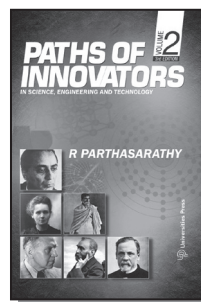
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R Parthasarathy

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



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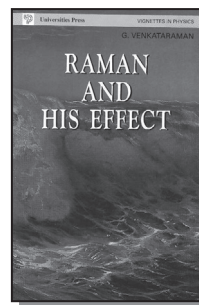
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Raman and His Effect

G Venkataraman

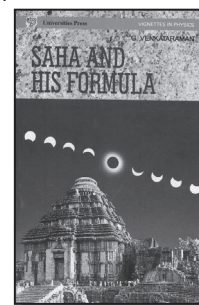


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A P J Abdul Kalam
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Arun Tiwari
Adjunct Professor, University of Hyderabad,
Hyderabad, India

Avul Pakir Jainulabdeen Abdul Kalam, the son of a little-educated boat-owner in Rameswaram, Tamil Nadu, had an unparalleled career as a defence scientist, culminating in the highest civilian award of India, the *Bharat Ratna*. As chief of the country's defence research and development programme, Kalam demonstrated the great potential for dynamism and innovation that existed in seemingly moribund research establishments. This is the *story of Kalam's rise from obscurity and his personal and professional struggles, as well as the story of Agni, Prithvi, Akash, Trishul and Nag*—missiles that have

become household names in India and have raised the nation to the level of a missile power of international reckoning. This is also the saga of independent India's struggle for technological self-sufficiency and defensive autonomy—a story as much about politics (domestic and international) as it is about science.

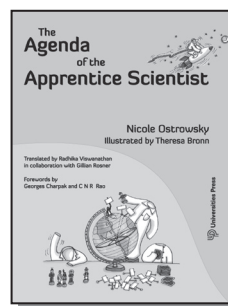
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Nicole Ostrowsky
Professor Emeritus, University of Nice Sophia
Antipolis, France



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Concise History of Science in India, A (Second Edition)

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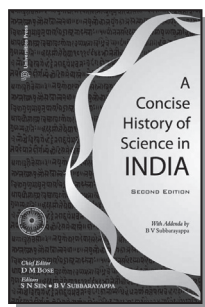
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Secretary, National Commission for the History of
Science in India; Director, Discovery of India Project,
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India's contributions in the field of science have been very influential in the development 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.

2009 978-81-7371-619-5	980 pp.	Paperback ₹ 1,395.00
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Ever Upwards: ISRO in Images

NEW

P V Manoranjan Rao

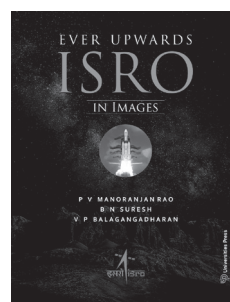
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Formerly Scientist, Vikram Sarabhai Space Centre,
ISRO



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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.

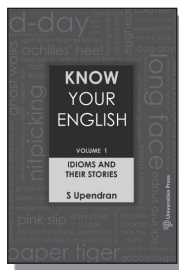
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Know Your English: Idioms and Their Stories, Volume 1

S Upendran

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



Idioms and Their Stories is the first of our four volume series based on *Know Your English*, the popular weekly column published in *The Hindu* since 1982.

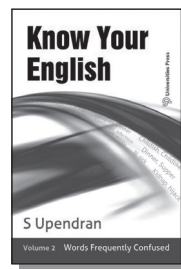
Teachers, students and those who are keen on honing their speaking and writing skills will find the series useful. This volume contains a selection of more than 300 idioms, and each entry gives the meaning of the idiom, provides examples of its use, and wherever possible, traces its origin.

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



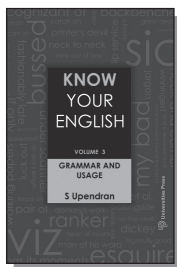
When an Indian decides to settle down in America, does he 'emigrate' or 'immigrate' to that country? What is the difference between 'it's' and 'its'? Should you refer to your fellow coworker as 'my elder colleague' or 'my older colleague'? *Words Frequently Confused*, the second volume in the four volume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

2013	416 pp.	Paperback
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Know Your English : Grammar and Usage, Volume 3

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?

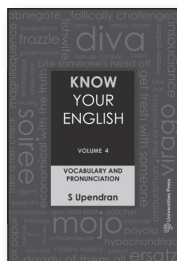
Grammar and Usage, is a practical reference guide that provides answers to such questions. The selections included in the book highlight some of the common errors that we Indians make when we use English.

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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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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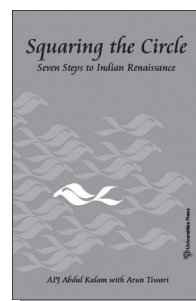
Squaring the Circle: Seven Steps to Indian Renaissance

APJ Abdul Kalam

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Arun Tiwari

Adjunct Professor, University of Hyderabad,
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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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