Medical and Paramedical



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Anatomy

Essentials of Human Genetics (Fifth Edition)

Manu L Kothari, Lopa A Mehta & Sadhana S Roychoudhury

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Ayurveda

Achar's Textbook of Pediatrics (Fourth Edition) Swarna Rekha Bhat (Ed.)

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

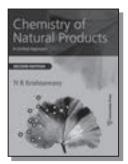
Arti Kapil (Ed.)

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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—isemphasised, 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.

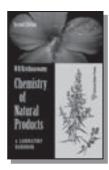
Contents: Introduction * Structure * Stereochemistry * Reactions and Rearrangements * Synthesis * Biosynthesis * Biological Significance of Secondary Metabolites * Problems * *Index*

2010	432 pp.	Paperback
978-81-7371-677-5		₹ 595.00

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 (Universities Press, 2010). *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 a Procedures for Isolation of Select Compounds • Chemical Transformations of some Natural Products • Synthesis of Select Compounds • Metabolism of Natural Products • Suggested Projects • *Appendix A* • *Appendix B* • *Index of Compounds* • *Index of Plants* • *Index of Reagents*

2012	224 pp.	Paperback
978-81-7371-757-4		₹ 250.00

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 vivo anticancer 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 Warrier

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

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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.

Contents: Abelmoschur esculentus

Abelmoschus moschatus * Abies spectabilis * Abrus precatorius * Acacia caesia • Acacia catechu • Acacia leucophloea Acacia nilotica
 Acacia polyantha
 Acacia sinuate
 Acalypha indica

 Achyranthes aspera
 Aconitum

 calamus « Actiniopteris dichotoma « Adenanthera pavonina * Aegle marmelos * Aerva lanata * Agaricus campestris « Ageratum conyzoides « Alangium salvifolium » Albizia lebbeck » Albizia odoratissima Allium cepa

 Allium sativum
 Allophylus serratus

 Aloe barbadensis

 Alpina galangal
 Alstonia

 scholaris & Alstonia venenata & Alternanthera sessilis Amaranthus spinosus

 Ammania baccifera ssp.

 baccifera * Amomum subulatum * Amorphophallus paeoniifolius ar.companulatus Anacardium ۲ occidentale « Anacyclus pyrethrum « Anamirta paniculata * Anethum graveolens * Anisomeles malabarica * Annona squamosa * Anogeissus latifolia Aphanamixis polystachya

 Aquilaria agollocha

 Arachis hypogaea

 Arecca catechu
 Argemone

 mexicana « Argyreia nervosa « Aristolochia bracteolate • Aristolochia indica • Artemisia nilagirica Artocarpus communis
 Artocarpus heterophyllus Artocarpus hirsutus

 Asparagus racemosus

Averrhoa carambola * Azadirachta indica * Bacopa monnieri » Baliospermum montanum » Bambusa arundinacea « Barringtonia acutangula « Basella alba var.rubra * Bauhinia variegate * Benincasa hispida * Beta vulgaris * Betula utilis * Biophytum sensitivum Bixa orellana

 Blumea lacera
 Boerhaavia diffusa

 Bombax ceiba
 Borassus flabellifer
 Boswellia
 Bosswellia
 Boswellia
 Boswellia
 Bosswellia
 Bosswellia serrata « Brassica juncea « Brassica oleracea var. capitata * Buchanania lanzan * Butea monosperma * Caesalpinia bonduc * Caesalpinia sappan * Cajanus cajan * Calamus rotang * Callicarpa macrophylla * Calophyllum inophyllum * Calotropis gigantean * Calycopteris floribunda * Camellia sinensis * Canavalia gladiata * Cannabis sativa * Canscora decussate * Canthium parviflorum * Capparis deciduas * Capsicum annuum * Cardiospermum halicacabum « Careya arborea « Carica papaya » Carissa carandas * Carthamus tinctorus * Appendix A & Appendix B & Index to Sanskrit Terms

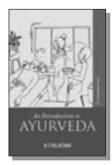
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Volume 5 1996 978-81-7371-706-2	592 pp.	Hardback ₹1,250.00

Introduction to Ayurveda, An

M S Valiathan

National Research Professor, Manipal University, Manipal



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 Avurveda 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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2012	156 pp.	Paperback
978-81-7371-827-4		₹ 295.00

4

Legacy of Caraka, The

M S Valiathan

National Research Professor, Manipal University, Manipal



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

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

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

Contents: Introduction * Caraka and his legacy * Atharva Veda to Caraka * Diseases in Caraka's period * Doctrines and concepts * Five evacuative procedures (pancakarma) * Procedures for rejuvenation and enhanced virility (rasayana and vajikarana) * Medicinal plants * Food and Drinks * Habitat * Learning to be a physician * *Section 1:* Ayurveda * Drugs formulations

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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, do!}as 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)

 Cellulitis (visarpa)
 Alcoholic

 disorders (madatyaya) * Sores and injuries (vrat:ta) Three regional disorders (basti, hfdaya and siras) Numb and immobile thights (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	634 pp.	Hardback
978-81-7371-667-6		₹1,295.00

Legacy of Susruta, The

MEDICAL SCIENCES

M S Valiathan

National Research Professor, Manipal University, Manipal



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) difficult urination (mutraghata, mutrakrcchra) * Diseases of the urinary tract (prameha) * Fistulain-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 (gulma) & Heart disease; pallor and jaundice; internal bleeding (Hrdroga, Panduroga, kamala, raktapitta) * Fainting; alcoholic disorders (murccha, panatyaya) & Morbid thirst; loss of appetite; regurgitation; vomiting; hiccup9trsna, 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 (SaIakyatantra) * 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 (baIagraha) & 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 (mu4hagarbha) * A count of body parts * Vital spots (marmas) * Srotas: siras and dhamanIs * 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

2007	908 pp.	Hardback
978-81-7371-666-9		₹1,295.00

Legacy of Vagbhata, The

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completes the "Great Vagbhata 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 (Svastavrtta) * A code for

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healthy conduct (svastavrtta) & Life in harmony with seasons (rtucarya) * Section III: Drinks and Food (Dravadravya) & Liquids as food (dravadravya) & Food (annasvarupa) * Food safety (annaraksa) * Measure of food for health (matrasitiya) & Section IV: Human Body (Sarira.) * Pancabhutas as the stuff of existence (Dravyavijnana) * Tastes (rasas) * Dosas, tissues (dhatus), wastes (malas) * Dosas (dosabhediya) * Section V: Development,, Structure and Functions of the Body l Sarira 1 * 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 (Salva) * Blunt instruments (yantras) * Sharp instruments (sastras) * Venesection (siravyadha) * Removal of foreign bodies (salyaharana) * Surgical operations (sastrakarma) * Cauterisation (ksaragnikarma) * Section VIII: Systemic Diseases & Causation and clinical course of diseases & Fevers (jvara) & Pittainduced 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, goutlike disorders (vatasonita, vatarakta) * Swelling (sopha) * Cellulitis (visarpa) * Disease caused by suppression of physical urges (Vega) * Section IX: Health and Disease of Children (Kaumarabhrrya) * 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 (musikaalarkavisa) & Section XIV: Regional Disorders & Piles (arsas) & Urinary obstruction (mutrakrcchra) & Scrotal swelling (vrddhi) & Gaseous lumps of the abdomen (gu1ma) * 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 (sandhisita-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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NEW

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Sarala Gopalan, S Rathnakumar & Vanita Jain (Eds)

See page 28

BIOCHEMISTRY

NEW

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 studentfriendly 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 d 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*

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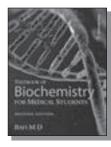
NEW

Textbook of Biochemistry for Medical Students

(Second Edition)

Rafi MD

Professor and Head, Department of Biochemistry, Chalmeda Ananda Rao Medical College, Karimnagar, India



This second edition of this book is extensively revised. It now covers the complete syllabus prescribed by the Medical Council of India for the MBBS course. Although it is designed as a basic textbook for the undergraduate student, it has resource material for postgraduates and advanced learners in biochemistry and medicine.

The topics are developed in a manner that encourages the student to develop analytical ability as opposed to memory-based learning. Each chapter begins with At a glance which gives a bird's eye view of the content, thus facilitating better comprehension of the whole. At the end of each chapter, MCQs, Clinical case studies, Problem-based exercises and Riddles have been given. These will be of immense help to the students preparing for various competitive examinations in India and abroad that include USMLE, PLAB, and All India MD/MS entrance examinations.

Contents: Preface to the Second Edition * Preface to the First Edition * Section I: Prelude * Section II: Molecules of Life * Section III: Physiological Biochemistry * Section IV: Metabolism * Section V: Nutrition * Section VI: Clinical Biochemistry * Section VII: Molecular Biology and Nuclear Chemistry * Section VIII: Biotechnology and Biochemical Techniques * Section IX: Biochemical Perspective of

MEDICAL SCIENCES

Endocrinology * Section X: Contemporary Topics * Key to MCQs * *Appendix * Index*

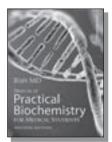
2014	816 pp.	Paperback
978-81-7371-936-3		₹ 925.00

NEW

Manual of Practical Biochemistry for Medical Students (Second Edition)

Rafi MD

Professor and Head, Department of Biochemistry, Chalmeda Ananda Rao Medical College, Karimnagar, India



This book is a practical companion in biochemistrytostudentsofMBBSandotherallied sciences, and for those engaged in biochemistry laboratories. Completely revised and updated, this new edition presents the subject in a lucid style and can be easily assimilated. The language is simple and easy to understand. The book contains relevant illustrations, tables and boxes, making it reader-friendly. The content is organised into 31 chapters of qualitative analyses and quantitative estimations, covering principles, procedures and observations followed by clinical interpretation. Specially formulated MCQs, problem-based exercises, questions relating to interpretation of laboratory data and case studies are provided to help students prepare for competitive examinations in India and abroad.

Contents: Preface to the Second Edition * Preface to the First Edition * 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 * 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) * 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 and Enzymelinked Immunosorbant Assay * Question Bank in Practical Biochemistry & Multiple Choice Questions (MCQs) in Practical Biochemistry & Problem-solving Exercises, Interpretation of Laboratory Data and Case Studies in Practical Biochemistry & Test Procedures for Qualitative and Quantitative Experiments in a Nutshell for Ready Reference in Examinations * Index

2014	236 pp.	Paperback
978-81-7371-934-9		₹ 250.00

Textbook of Basic and Clinical Immunology

Sudha Gangal & Shubhangi Sontakke

See page 11

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 Electronics of Medical 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		₹ 395.00

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 toLimb 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:

MEDICAL SCIENCES

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		₹ 345.00

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 the several important concepts (This was intentionally done to avoid confusion amongst students who are not exposed to

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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 noninfectious 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 Immunology to Innate Immunity & Cells of the Immune System * Organs of the Immune System * Antigens Antigen Processing and Presentation * Major Histocompatibility Complex & B cells: Maturation, Activation, Proliferation and Differentiation Immunoglobulin Rearrangement ۲ Gene 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

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

2013	572 pp.	Paperback
978-81-7371-829-8		₹ 895.00

CARDIOLOGY

50 Fascinating Case Studies

K P Misra

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



This book is an excellent tool for learning clinical cardiology. It presents real-life cases and clinical problems in cardiology, and by using an interesting mix of x-rays, ECGs and case presentations, it illustrates in each case, a principle or concept likely to be missed, thereby resulting in misdiagnosis or missed diagnosis!

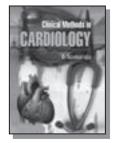
Each problem is presented on a fresh page and the diagnosis is arrived at through a series of analytical steps (given on the reverse), thus giving the learner ample opportunity for selflearning.

Paperback
₹ 325.00
Paperback
₹ 325.00

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.

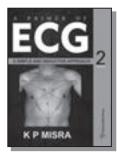
Contents: The Science and Art of Medicine * Patient Presentations * Cardiovascular Diagnosis * Functional Categorization of Cardiovascular Disability * Cardiovascular Dynamics: Basic Considerations * The Patient's History * Evaluation of Chest Pain: Diagnostic and therapeutic Implications * Dyspnea * 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 Nonejection 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		₹695.00

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		₹ 425.00

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Forensic Medicine

Forensic Medicine

(Second Edition)

P V Guharaj

Professor and Head, Department of Forensic Medicine, Calicut Medical College, Kozhikode, India

M R Chandran

Principal, Amala Institute of Medical Sciences, Thrissur, India



This book is written mainly with the medical undergraduate in mind, but should also prove to be a useful reference for postgraduate students and practitioners. Both the theory and practice of forensic medicine and clinical toxicology have been given case perspectives. Detailed references have been provided at the end of each chapter.

Contents: Legal Procedure in India * Personal Identity * Death: Its Diagnosis and Changes that Examination of Mutilated and Skeletal Human Remains and Exhumation & Mechanical Injuries & Regional Injuries * Medicolegal Aspects of Wounds * Traffic Accidents * Asphyxial Deaths * Injuries from Physical Agents & Death from Starvation & Virginity, Sex Offences, Paraphilias and Indecent Assault & Impotence, Sterility, Artificial Insemination, Sexual Sterilisation and Legitimacy and Paternity * Pregnancy, Miscarriage and Delivery & Infant Deaths Blood, Semen and other Biologil;al Materials . Forensic Psychiatry * Deaths and Complications from Anesthesia and Surgery & The Law and Ethics of Medical Practice & General Considerations of Poisoning * Corrosive Poisons * Metal Poisoning * Poisonous Plants * Drugs of Intoxication and Dependence
 Insecticides and Rodenticides Irrespirable * Gases * Poisonous Snakes, Arthropods

and Insects * Food Poisoning * Collection and Preservation of Biological Evidence * *Appendices* * *Index*

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2003	472 pp.	Paperback
978-81-7371-682-9		₹ 595.00

Genetics

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 Roychoudhury

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		₹ 595.00

MEDICINE

Textbook of Basic and Clinical Immunology

Sudha Gangal & Shubhangi Sontakke

See page 11

Textbook of Medicine

R S Vasan

Formerly Head, Division of Cardiovascular Epidemology, Institute for Medical Science and Technology, Thiruvananthapuram, India

Sudha Seshadri

Formerly Assistant Professor, Department of Neurology, All India Institute of Medical Sciences, New Delhi, India

This book offers a comprehensive coverage of medicine for undergraduate medical students in a simple but exhaustive manner. The subject has been divided into systematic sub-sections and discussed with special reference to our country. Tables, illustrations and emergencies are useful adjuncts.

MEDICAL SCIENCES

Contents: Medicine as an Art and a Science * Decision-making in Clinical Medicine * Genetics and Molecular Biology & Clinical Pharmacology & Nutrition Related Disorders & Fluid and Electrolyte Disturbance * Imaging in Medical Disorders * Infectious Diseases * Disorders of the Nervous System * Psychiatric Diseases * Disorders of the Respiratory System * Disorders of the Cardiovascular System * Disorders of the Gastrointestinal and Hepatobiliary System & Renal Diseases & Disorders of the Hematopoietic System & Endocrine and Metabolic Disorders & Disorders of Immune Function and Connective Tissues * Poisoning and Diseases due to Environmental Agents & Occupational Health ¤ Pregnancy-related Medicine * Computers in Medicine * *Appendix A:* Performance of Procedures * Appendix B: Biochemical Values * Bibliography * Index

> Available in e-book format only. For details, visit www.universitiespress.com

1998	1387	Paperback
978-81-250-1266-5		₹ 495.00

Microbiology

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

Arti Kapil (Ed.)

Professor, Department of Microbiology, All India Institute of Medical Sciences, New Delhi, India



This famous textbook was conceived in the early 1970s by two of the renowned Indian educators and professors of Microbiology. The first edition, published in 1978, was a masterpiece of clarity and uniformity of style. Although the format and presentation have seen many changes in the eight subsequent editions, the authors' original vision and objectives remain. More than three

and a half decades after its first publication, the book continues to inform and educate students and teachers.

Thenintheditionhasbeencompletelyupdated and revised. In accordance with advances in the field, the sections on Immunology, Mycology and Clinical Microbiology have been given due prominence. To better prepare students for clinical situations, case studies, approach to treating common diseases and algorithms and flowcharts have been included. Practice questions that mirror those that frequently appear in examinations have been provided at the end of every chapter.

The presentation and layout has been tailored to help students absorb information quickly, as greater demands are placed on their time. Illustrations and photographs have been improved to enable ease of learning and retention of information.

Contents: Part I: General Microbiology: * Introduction and Bacterial Taxonomy & Morphology and Physiology of Bacteria & Sterilisation and Disinfection * Culture Media * Culture Methods * Identification of Bacteria & Bacterial Genetics & Part II: Immunology: Infection & Immunity & Antigens * Antibodies-Immunoglobulins * Antigen-Antibody Reactions * Complement System * Structure and Functions of the Immune System & Immune Response * Hypersensitivity * Immunodeficiency Diseases * and Malignancy & Immunohematology & Part III: Bacteriology & Staphylococcus & Streptococcus Streptococcus Pneumoniae * Neisseria * Corynebacterium & Bacillus & Anaerobic Bacteria I: Clostridium & Anaerobic Bacteria II: Non-sporing Anaerobes & Enterobacteriaceae I: Coliforms-Proteus * Enterobacteriaceae II: Shigella * Enterobacteriaceae III: Salmonella * Vibrio * Pseudomonas * Yersinia, Pasteurella, Francisella * Haemophilus * Bordetella * Brucella * Mycobacterium I: M.tuberculosis * Mycobacterium II: Non-Tuberculous Mycobacteria (NTM) & Mycobacterium III: M.leprae & Spirochetes * Mycoplasma * Actinomycetes * Miscellaneous Bacteria * Rickettsiaceae * Chlamydiae * Part IV: Virology & General Properties of Viruses & Virus-Host Interactions: Viral Infections * Bacteriophages Picornaviruses*Orthomyxoviruses*Paramyxoviruses Arboviruses
 Rhabdoviruses
 Hepatitis Viruses
 Miscellaneous Viruses & Oncogenic Viruses & Human Immunodeficiency Virus: AIDS * Part V: Medical Mycology * General Aspects * Superficial and Subcutaneous Mycoses & Systemic and Opportunistic Mycoses * Part VI: Applied Microbiology * Normal Microbial Flora of the Human Body & Bacteriology of Water, Air, Milk and Food & Laboratory Control of Antimicrobial Therapy & Immunoprophylaxis & Healthcare-associated Infections & Biomedical Waste Management * Emerging and Re-emerging Infections * Recent Advances in Diagnostic Microbiology * Part VII: Clinical Microbiology & Bloodstream Infections Respiratory Tract Infections

 Meningitis
 Urinary

 Tract Infections * Sexually Transmitted Infections * Diarrhea and Food Poisoning & Skin and Soft Tissue Infections * Pyrexia of Unknown Origin * Zoonoses * Further Reading * Index

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2013	720 pp.	Paperback
978-81-7371-889-2		₹ 725.00

Textbook of Basic and Clinical Immunology

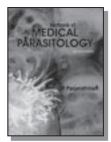
Sudha Gangal & Shubhangi Sontakke

See page 11

Textbook of Medical Parasitology, A (Second Edition)

R Panjarathinam

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



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

Special Features: Six pages of colour photographs have been included. The book is generously illustrated with new line drawings. * A detailed summary is

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

Contents: General Introduction • Protozoa • Rhizopoda • Zoomastigophorea • Sporozoa • Ciliatea (Balantidium coli) • Cestodes • Class Trematoda • Class Nematoda • Immunoparasitology • Parasitisms-Occurrence, Symptoms and Treatment • vectors and Diseases • Laboratory Examinations • Culture Media • *Appendix* • *Index*

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

2007	392 pp.	Paperback
978-81-250-3159-8		₹ 495.00

NURSING

Achar's Textbook of Pediatrics

(Fourth Edition)

Swarna Rekha Bhat (Ed.)

See page 32

Ananthanarayan and Paniker's Textbook of Microbiology for Nurses

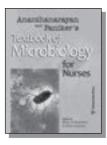
Mary S Mathews (Ed.)

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

Ruth H Ashbee (Ed.)

Visiting Lecturer, School of Molecular and Cellular Biology, University of Leeds, UK

MEDICAL SCIENCES



For over thirty years, Ananthanarayan and Paniker's Textbook of Microbiology has guided students through the complex and absorbing world of microbiology. In this book, their knowledge and insight into this subject have been distilled to help nursing students care for and manage patients affected by these microbes.

This book is specifically aimed at nursing students in India, and the diseases covered, immunisation schedules, procedures for disposal of waste and other information, which may vary between countries, is focussed on the Indian scenario. Two sections, in particular, highlight this orientation:

The *Parasitology section*, which comprises Protozoa and Helminths, has been comprehensively illustrated, with new, vibrant structure and life cycle images which would help nurses understand the pathogenesis of diseases caused by these organisms.

The final section of the book, *Clinical and Hospital Microbiology*, deals with standard and desirable nursing practices, such as hand hygiene and antiseptic procedures for the collection and transport of specimens from the patient to the laboratory. These play an important role in reducing/preventing the spread of infection, both in the hospital and in the community.

Special Features: Oriented to the BSc Nursing course, *as per the Indian Nursing Council (INC) syllabus* * Emphasises standard and desirable nursing practices * New figures and illustrations * Simple language * Essay, short note and short answer questions * Reader-friendly layout

Contents: *I*: Introduction Microbiology to Historical Introduction ۲ Structure and Function of Bacteria * Bacterial Growth and Cultivation * Microscopy and Staining * Sterilisation and Disinfection * Antimicrobial

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Chemotherapy & Molecular Microbiology & 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 * III: Systematic Bacteriology and Systems-based Microbiology & Staphylococci * Streptococci * Bacillus and Clostridium * Nonfermenting 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 * 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 * V: Parasitology * Protozoa * Helminths * VI: Mycology * Medical Mycology * VII: Clinical and Hospital Microbiology & Normal Microbial Flora of the Human Body & Microbiology of Water, Milk and Air & Hospital-acquired Infections (Nosocomial Infections) * Opportunistic Infections * Collection and Transport of Specimens for Microbiological Investigations * Laboratory Diagnosis of Infectious Diseases & Biomedical Waste Management & Infection Control and Precautions in Patient Care & Prevention of Infections in Healthcare Workers & Index

2010	312 pp.	Paperback
978-81-7371-718-5		₹ 325.00

FORTHCOMING

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

Balaji Veeraraghavan

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

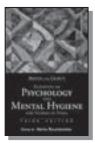
The popular title has been revised to reflect and include the relevant changes that were brought into the 9th edition of *Anathanarayan and Paniker's Textbook of Microbiology*. The content has been edited keeping in mind the relevance to the nursing student. Emphasis has been laid on the preventive aspects of healthcare, which is vital to the nursing community. Nursing tips have been included throughout the book which help translate the theory into bedside clinical application. Relevant nursing protocols have been included as required. The overall presentation has been richly enhanced by the inclusion of algorithms, tables as well as clear and accurate slides and figures.

The endeavour in the new edition has been to keep the role of the nurse in microbiology in focus and provide information and knowledge that will allow the nurse to participate in the healthcare system effectively.

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

Aruna Balachandra (Ed.)

Formerly Reader, Justice Basheer Ahmed Sayeed (JBAS) Women's College, Chennai, India



The third edition of this popular nursing title is a thoroughly updated version. It is designed with the *Indian Nursing Council (INC)* syllabus in mind and is meant for students of the B.Sc Nursing course. New diagrams and flowcharts have been added. Chapters on Heredity and Genetics, Emotions and Stress and Attention and Perception have also been included.

Contents: Foreword * Preface to the Third Edition * Preface to the First Edition * INC Syllabus for Psychology * Acknowledgements * The Nature and Scope of Psychology * History and origin of the science of psychology – Meaning and definitions of psychology – Psychology as a Science – Behaviour – Relation of psychology to other fields of study – Scope of psychology – Branches of psychology –Applied psychology – Scope of psychology with special relevance to nursing – Psychology and the art of effective nursing * Methods of Psychology * The introspective method – The observational method – The experimental method – The clinical or case study method – The survey method – The genetic or developmental method - Testing method * The Mind and Body-Mind Relationship * The mind - The conscious, preconscious and unconscious - Analysis of conscious mental phenomena - Altered states of consciousness - the Body-mind relationship - Effect of the body on mental functioning - Effect of the mind on bodily functions - Modulation process in health and illness - Relevance of body-mind relationship to nursing * Genetics and Behaviour * Genetics - Heredity - Principles of heredity - Genetic disorders - Environment - Influence of heredity and the environment - Personality and temperament - Interaction of heredity and environment - Individual differences * The Nervous System * Parts of the nervous system - The central nervous system - The peripheral nervous system -What nurses should know about the nervous system in illness - Conditions which can affect the nervous system * The Sense Organs, Muscles and Glands * The sense organs - Sensory disorders and defects - Psychology of sensation - Properties of Sensations - Common sensory abnormalities - Sensory processes: the patient and the nurse - The muscles - Nursing and the effect of illness on muscles - The glands - What nurses should know about glands * Attention and Perception * Attention - Meaning and definition of attention - Characteristics of attention - Determinants of attention -Varieties of attention - Duration and degree of attention -- Alterations in attention - Perception - Meaning of perception - Factors affecting perception - Principles of perception - Errors in perception - Relevance of attention and perception for nurses * Learning * The nature of learning - Factors affecting learning - Factors related to the learner - External factors that influence learning - Factors related to method of learning - Process of learning - Types of learning - Modes of learning - Learning by trial and error - Laws of learning - Learning by insight -Learning by observation -Learning by conditioning -Transfer of learning - Theories of transfer of learning - Types of transfer - Habits - Definition and characteristics of habits - Basis of habit formation - Types of habits - What nurses should know about habits - Skills -Acquiring skills - Other kinds of skills - Advantages of skills - Study habits -Studying for examinations - Importance of knowing about learning for nurses * Memory * Memory process - Theories of memory - Methods of measuring memory - Factors influencing memory - Individual factors - Method of memorisation or improving memory/memory training - Development of memory - Pathology

of memory - Forgetting - Causes of Forgetting -Relevance to nursing * Thinking * Nature of thinking – Elements of thinking – Concepts – Levels of thinking - Development of thinking - Errors in thinking - Types of thinking - Controlled vs free thinking - Convergent vs divergent thinking - Concrete vs abstract thinking - Critical thinking - Creative thinking - Problem solving - Process of problem solving - Obstacles to problem solving -Reasoning – Language comprehension – Relationship with language and communication – Listening skills – Importance of thinking skills for nurses * Intelligence and Aptitude * What is intelligence? -Uses of intelligence - Types of intelligence - Theories of intelligence - Individual differences in intelligence - Mental age and IQ - Interpretation of results -Classification of individuals on the basis of intelligence Mental retardation – Giftedness – Assessment of intelligence - Types of intelligence tests - Uses of intelligence tests - Aptitude - Meaning of aptitude Types of aptitude and aptitude tests – Relevance of intelligence and aptitude for nurses - Psychometric Assessment of Cognitive Functions & Motivation & Motivation: meaning and related concepts - Types of mtivation - Motivational cycle - Characterisitics of motivation – Motives and behaviour –Classification of motives - Theories of motivation - Maslow's hierarchy of needs - McCleeland's theory of motivation - Freud's theory of motivation - Relevance of motivation for nurses * Frustration and Conflict * What is frustration? -Sources of frustration - Is frustration always desirable? - How to deal with frustrations - Task-oriented methods - Conflict Types of conflict

2013	400pp.	Paperback
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Essential Obstetrics: Textbook for Undergraduates

Asha Oumachigui, S Soundara Raghavan & S Habeebullah

See page 24

Essentials of Human Genetics (Fifth Edition)

Manu L Kothari, Lopa A Mehta & Sadhana S Roychoudhury

See page 14

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 linedrawings, 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		₹250.00

Mudaliar and Menon's Clinical Obstetrics

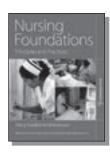
(Twelfth Edition)

Sarala Gopalan, S Rathnakumar & Vanita Jain (Eds)

See page 28

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 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		₹ 450.00

NEW

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 21

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 * Nonprobability Sampling Techniques * Sampling Errors * Introduction to Data Collection * Developing the Data Collection Plan * Questionnaires * Interviews Observations
 Vignettes
 Projective Techniques
 * Q Sorts d 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 d How to Communicate 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 Health * Vital Health Statistics * Types and Levels of Data and their Measurement * Chapter 13: Measures of Central Tendency & Introduction to Measures of Central Tendency & Mean (Arithmetic) d Median * Mode d Selecting the Appropriate Measure of Central Tendency & Position of Measures of Central Tendency & Chapter 14: Measures of Variability & Introduction to Measures of Variability * Range * Interquartile Range * Variance * Standard Deviation Choosing the Appropriate Measure of Variability * Chapter 15: Measures of Relationship & Correlation: Meaning and Need * Scatter Diagram Method * Types of Correlation & Correlation Statistics & Simple Linear Regression * Chapter 16: Parametric and Non-parametric Tests * Introduction to Parametric and Non-parametric Tests & Parametric Tests & t-Test * z-Test * Analysis of Variance (ANOVA) * ANCOVA * Non-Parametric Tests * Chi-square Test * Sign Test * Wilcoxon Signed Rank Test * Mood's Median Test * McNemar's Test * Mann-Whitney U Test & Fisher's Exact Test & Kruskal-Wallis Test * Chapter 17: Use of Computers for Data Analysis * Introduction to Computers * Use of Computers in Statistics & Statistical Packages for Quantitative Research * SPSS * STATA * Microsoft Office Excel * Statistical Packages for Qualitative Research * Advantages of Statistical Packages & Disadvantages of Statistical Packages d Annexures & Model Question Papers & Index

2015	424pp.	Paperback
978-81-7371-979-0		₹ 350.00

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

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Parikshit Tank (Ed.)

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



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

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

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

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2013	332 pp.	Paperback
978-81-7371-864-9		₹675.00

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

Asha Oumachigui

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

S Soundara Raghavan

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

S Habeebullah

Director-Professor and Head, Department of Obstetrics and Gynecology, Jawaharlal Institute of Postgraduate Medical Education and Research, Pondicherry, India 23



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 obsterics 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 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		₹ 495.00

Common Obstetrical and Gynecological Conditions: A Clinical Management Handbook

U K Ghosh

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



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

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

2014	244 pp.	Paperback
978-81-7371-937-0		₹ 495.00

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, Pondicherry, India

S Soundara Raghavan

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

S Habeebullah

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



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

- 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 * Labour * Occipitoposterior Position, Face and Brow Presentations * Breech and Shoulder Presentations * Multiple Pregnancy * Induction of Labour * Vaginal Operative Delivery * Cesarean Section * Complications of Third Stage of Labour * Care of the Newborn * Normal Puerperium * Lactation and Breastfeeding * Abnormal Puerperium * Hyperemesis Gravidarum * Hypertensive Disorders * Antepartum Hemorrhage * Preterm Labour * Prelabour Rupture of Membranes * Prolonged Pregnancy * Rhesus Isoimmunisation * Fetal Growth Restriction * Anemia * Heart Disease * Respiratory Disorders * Diabetes Mellitus * Thyroid Disease * Urinary Tract Infections & Sexually Transmitted Infections Tropical Infections

 Epilepsy
 Psychiatric

 Disorders & Diseases of the Liver & Common Surgical Causes of Acute Abdomen in Pregnancy * Gynecological Disorders Complicating Pregnancy * Shock in Obstetrics * Disseminated Intravascular Coagulation * Demography, Population Control and Contraception * Natural and Conventional Methods of Contraception * Hormonal Contraceptives * Intrauterine Contraceptive Devices * Surgical Contraception * Emergency Contraception

2011	528 pp.	Paperback
978-81-7371-735-2		₹695.00

MEDICAL SCIENCES

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

2009	144 pp.	Paperback
978-81-7371-645-4		₹ 495.00

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

Gita Arjun

Director, E V Kalyani Medical Centre, Chennai, India

Leonie Penna

Clinical Director, Womens' Services; Consultant Obstetrician/Lead, Labour Ward, King's College Hospital, London, UK



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 post-partum 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 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

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

2011	536 pp.	Paperback
978-81-7371-746-8		₹ 650.00

NEW

Mudaliar and Menon's Clinical Obstetrics (Twelfth Edition)

Sarala Gopalan

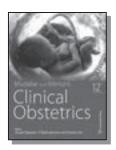
Formerly Professor and Head, Department of Obstetrics and Gynecology, PGIMER, Chandigarh, India

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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

MEDICAL SCIENCES

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in Pregnancy & Hypertensive Disorders of Pregnancy Antepartum Hemorrhage – Abruptio Placentae Antepartum Hemorrhage – Placenta Previa * Preterm Birth d 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 * 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 d 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: Historytaking 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

2015	512 pp.	Paperback
978-81-7371-953-0		₹ 695.00

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.

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

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Pregnancy * Postpartum Maternal Collapse * FetalTherapy * Controversies in Obstetrics * Index2009604 pp.Paperback

2009	604 pp.	Paperback
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Obstetrics and Gynecology for Postgraduates (Volume II) (Third Edition)

Sir Sabaratnam Arulkumaran (Ed.)

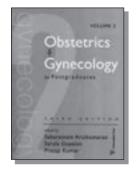
Professor Emeritus – St George's University of London;President, International Federation of Obstetrics & Gynecology (FIGO); formerly President, British Medical Association and Royal College of Obstetricians & Gynaecologists, UK

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 Mandakini Parihar and Aditi Tayade * Adolescent and Pediatric Gynecological Problems Kusagradhi Ghosh and Jayita Chakrabarti * Amenorrhea Thankam Rama Varma * Sexual Ambiguity-Intersex Disorders BN Chakravarty and NJ Gupta * Polycystic ovary syndrome S Sevellaraja * Management of Menorrhagia Rajesh Bhakta * Infertility Pratap Kumar * Endometriosis C Soundaram and Kamal Ojha & Current trends in the early diagnosis and treatment of tubal pregnancy Nutan Agarwal and Alka Kriplani & Uterovaginal prolapse Pranathi Reddy & Reproductive Tract Infections Mahalakshmi Gorti and Edwin Chandraharan * Epidemiology of Malignancies in the Reproductive Age Group Neelanjana Mukhipadhaya Sabaratnam Arulkumaran * Hormone and Replacement Therapy in Menopa usal Women Usha R Krishna and Ajita Mandlekar & Stress Urinary Incontinence Pranathi Reddy & Urinary and Fecal Incontinence in Women Mala Vijayakrishnan and K Bhasker Rao * Gestational Trophoblastic Diseases K Sekharan * Benign Lesions of the Cervix and Uterus Barun Sarkar * Pathology and Management of Cervical Intraepithelial Neoplasia (CIN) Lesions of the Cervix Virochana Kaul » Diagnosis and Management of Early Cervical Cancer AP Manjunath and S Girija * Carcinoma of the Endometrium GRV Prasad * Premalignant and Malignant Lesions of the Vulva Poonam Goel and PK Saha & Malignant Epithelial Ovarian Tumours Pralhad Kushtagi & Role of Chemotherapy in Epithelial Ovarian Cancers Rakesh Kapoor * Radiotherapy in Gynecology MS Vidyasagar * Screening for Gynecological Cancers Suresh Kumarasamy & Palliative Care for Patients with Gynecol ogical Cancers Firuza D Patel, Lee Hsueh Ni and Suresh C Sharma & Assisted Reproductive

MEDICAL SCIENCES

Technology PM Gopinath & Gynecological Operative Endoscopy–Indications and Limitations Kurian Joseph and Vanita Jain * Prevention and Treatment of Urinary Tract Injuries in Gynecological Surgery Javed H Rizvi and Fauzia Haq Nawaz • Breast and the Gynecologist Rekha Kurian and Sarala Gopalan · GnRH Analogues in Gynecology Siya S Sharma and Sucheta Jindal » Prostaglandins Pankaj Desai and Sarbani Ghosh . Genetics in Infertility and Prenatal Diagnosis Mandakini Pradhan • Induced Abortion Rupinder Kaur Ruprai & Recent Trends in Contraceptive Technology Gita Arjun & Hormonal Contraceptives: Current Problems and Developments A Padma Rao & Male and female sterilisation RCM Kaza and Indu Gupta & Fibroid Uterus Reva Tripathi * Chronic Pelvic Pain Mandeep Singh * Misoprostol in Obstetrics and Gynecology Gowri Ramanathan and Sabaratnam Arulkumaran * Index

2010	692 pp.	Paperback
978-81-7371-691-1		₹1,100.00

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

Gita Arjun (Ed.)

Director, E V Kalyani Medical Centre, 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 * Utrasound 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 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 Reporductive 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 * Postpartum Hemorrhage * Management of Obstetric Anal Spincter Injuries * Prolonged and Obstructed Labour * Uterine rupture and uterine inversion * Peritpartum Critical Illness and Collapse * Index

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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 procedures, an evaluation of the technology and management, and an indication of the directions in which the research is moving.

Adolescence

Usha R Krishna (Ed.)

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

Vinita Salvi (Ed.)

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

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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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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 *

MEDICAL SCIENCES

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 eff ect 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.

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 Intrapratum Asphyxia * Fetal ECG Waveform Analysis during Labour * Fetal Pulse Oximetry * Biochemical Monitoring of Intrapratum 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*

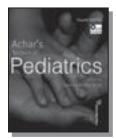
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PEDIATRICS AND CHILD CARE

Achar's Textbook of Pediatrics (Fourth Edition)

Swarna Rekha Bhat (Ed.)

Professor, Pediatrics and Neonatology; 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 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 * Examoriented 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 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		₹ 795.00

NEW

Pediatric Endocrine Disorders

(Third Edition)

Meena P Desai

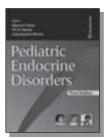
Visiting Consultant, Endocrinology Division, B J Wadia Hospital for Children and Institute of Child Health and Research Centre, Mumbai, India

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
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Pharmacy

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

Arti Kapil (Ed.)

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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

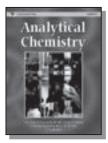
Reader in Chemistry, New Science College, Ameerpet, Hyderabad, India

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

MEDICAL SCIENCES

of Analysis: UV-Visible Spectroscopy * Analysis of Water * *Index*

2001	216 pp.	Paperback
978-81-7371-385-9		₹ 295.00

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 1

Conceptual Pharmacology

P Jagadish Prasad

Professor, Department of Civil Engineering, Indian Institute of Science, Bengaluru, India



Pharmacology is currently one of the fastgrowing branches of medical science. This book was written to provide students basic information in pharmacology with emphasis on clinical aspects and pharmacological approaches to drug-based treatment Information about the drug is given in detail and includes pharmacokinetics, pharmacodynamics, clinical indications, adverse drug reactions and drug interactions.

Special Features: Self-assessment questions at the end of each chapter * Numerous illustrations: chemical structures and medical drawings * Unique topics like dermatological pharmacology, drug use in pregnancy, therapeutic drug monitoring and rational drug use

Contents: General Pharmacology * Autonomic Nervous System * Cardiovascular System * Central Nervous System * Autacoids * Hemopoietic System * Diuretics * Chemotherapeutic Agents * Gastrointestinal System * Hormones * Respiratory System Disorders * Immune Pharmacology * Drugs Acting on the Uterus * Drug Therapy of Hyperlipidemias * Toxicology * Drug Use during Pregnancy * Dermatological Pharmacology * *Vitamins Index*

2010	700 pp.	Paperback
978-81-7371-679-9		₹ 750.00

Drugs

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

C Sudhakar

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



Drugs have played a central role in the progress of human civilization. There are many important stages before a compound is used as a drug to treat a disease. The first stage is drug discovery; the second stage is the manufacture;

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and the third stage is the formulation of the drug in the form of tablets, capsules, injections and solutions. Some drugs like penicillin have been discovered quite accidentally, while some plant-derived drugs have been known to man since very early times; for example, quinine, ephedrine, cocaine, and morphine. This book deals with the historical aspects of the development and use of drugs, vitamins, hormones; their classification, synthesis and formulation; and the general principles of drug actions. The pharmacokinetics, the interaction of drugs in the targeted receptor, and mode of drug synthesis is explained in detail.

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

2001	168 pp.	Paperback
978-81-7371-386-6		₹275.00

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		₹ 375.00

Herbal Drug Technology (Second Edition) S S Agrawal & M Paridhavi

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Indian Medicinal Plants: A Compendium of 500 Species

P K Warrier, V P K Nambiar & C Ramankutty

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Introduction to Ayurveda, An

introduction to Ay

M S Valiathan

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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		₹ 850.00

Textbook of Clinical Pharmacy Practice (Second Edition)

G Parthasarathi (Ed.)

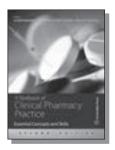
Dean, Faculty of Pharmacy; Professor, Pharmacy Practice, J S S University, Mysore, India

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 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		₹ 575.00

MEDICAL SCIENCES

Textbook of Industrial Pharmacognosy

Anusuya R Kashi

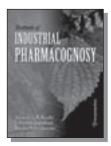
Department of Pharmacognosy, Vivekananda College of Pharmacy, Bengaluru, India

S Ramachandran

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

Bindu Sukumaran

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



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

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

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2012	244 pp.	Paperback
978-81-7371-754-3		₹ 375.00

MEDICAL SCIENCES

38

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 stepby-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 selfassessment 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 Effulent treatment in Pharmaceutical Industries * *Section II*: Cosmetic Technology * Raw Materials Used in Cosmetics * Cosmeceuticals * Formulation of Cosemetics * Herbal Cosmetics * Quality control of Cosmetics * Safety and Efficacy of cosmetics * Stability Testing * Regulatory Aspects 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		₹ 525.00

Physiology

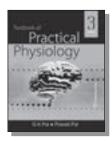
Textbook of Practical Physiology (Third Edition)

G K Pal

Professor and Head, Department of Physiology, JIPMER, Pondicherry, India

Pravati Pal

Professor, Department of Physiology, JIPMER, Pondicherry, India



For almost ten years, the *Textbook of Practical Physiology* has helped students acquire the knowledge and skills required to perform the investigations that form an intrinsic part of this subject. In the third edition, all the chapters have been thoroughly revised and the concepts updated. A new chapter on the spectral analysis of heart rate variability has been added. This is the first textbook in medicine to introduce this topic as a text for medical students. Apart from this, the feedback received from students and teachers has been given due importance and is reflected in this edition.

Special Features: New chapter on spectral analysis of heart rate variability * Updated chapters * Simple language * Numerous illustrations to enhance clarity * Viva and OSPE questions * Updated bibliography

Contents: 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 Count * Arneth Count * Absolute Eosinophil Count * Determination of Erythrocyte Sedimentation Rate of Red Cells * Determination of Bleeding Time and Coagulation Time * Platelet Count * Reticulocyte Count & Section II: Human Experiments & General Principles of Clinical Examination & General Examination Respiratory System * Stethography * Clinical Examination of the Respiratory System * Effect of Posture on Vital Capacity * Pulmonary Function Tests Gastrointestinal System * Clinical Examination of the Gastrointestinal System Cardiovascular System * Electrocardiography * Pulse Tracing * Measurement of Blood Pressure * Effect of Posture on Blood Pressure and Heart Rate * Effect of Exercise on Blood Pressure and Heart Rate * Clinical Examination of the Cardiovascular System * Systolic Time Intervals Nerve and Muscle * Nerve Conduction Study * Electromyography * Mosso's Ergography Nervous System * Clinical Examination of the Sensory System * Clinical Examination of the Motor System * Clinical Examination of the Cranial Nerves * Autonomic Function Tests * Spectral Analysis of Heart Rate Variability * Brainstem Auditory Evoked Potential & Visual Evoked Potential * Somatosensory Evoked Potential * Motor Evoked Potential Special Senses * Perimetry * Visual Acuity * Colour Vision & Hearing Tests & Examination of Taste and Smell Reproductive System * Semen Analysis * Pregnancy Diagnostic Tests * Section III: Amphibian Experiments & Experiments on Frog's Nerve and Muscle * Appliances * Nerve-Muscle Preparation * Study of Reactivity of Tissues & Simple Muscle Twitch * Effect of Temperature on Simple Muscle Twitch * Effect of Increasing Strength of Stimuli on Muscle

Contraction & Effect of Two Successive Stimuli on Muscle Contraction & Genesis of Tetanus & Genesis of Fatigue & Effect of Load on Muscle Contraction * Isometric Contraction * Conduction Velocity of Nerves in Frogs Experiments on Frog's Heart and Blood Vessels * Normal Cardiogram of Frog * Effect of Temperature on Frog's Heart & Effect of Stannius Ligature on Frog's Heart * Properties of the Cardiac Muscle * Effect of Stimulation of Vagosympathetic Trunk on Frog's Heart & Effect of Nicotine and Atropine on Frog's Heart & Perfusion of Frog's Heart and Effect of Drugs and Ions * Perfusion of Blood Vessels of the Frog & Capillary Circulation in the Frog Experiments on Frog's Nervous System & Postural Reflexes in the Frog & Section IV: Mammalian Experiments * Perfusion of Isolated Heart of Rabbit by Langendorff's Method & Effect of Drugs and Ions on Isolated Mammalian Intestine * Effect of Drugs on Mammalian Uterine Contraction * Estrus Cycle in Rats * Demonstrations of Experiments in the Anesthetised Dog Index of normal values * Bibliography & Index

2010	452 pp.	Paperback
978-81-7371-671-3		₹ 425.00

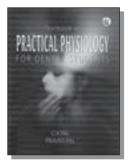
Textbook of Practical Physiology for Dental Students

G K Pal

Professor and Head, Department of Physiology, JIPMER, Pondicherry, India

Pravati Pal

Professor, Department of Physiology, JIPMER, Pondicherry, India



Dental science is vast in its approach and many branches of medicine come together in this specialty. A dental student should have adequate practical and theoretical knowledge of the various aspects of physiology of many

40 MEDICAL SCIENCES

systems including cardiovascular and respiratory physiology, hematology, endocrinology and neurophysiology.

This book covers all aspects of practicals in the subject. The experiment and its principle are presented in a very precise though comprehensive form. The book contains not only details of practicals, but also adequate theoretical aspects of the practical: therefore, this is a complete textbook of practical physiology. We have made special efforts to emphasise the application of practical knowledge in clinical medicine. The book contains all essential underlying principles of practical physiology *as per the latest* recommendations of the Dental Council of India (DCI) and Medical Council of India (MCI). The instruction of DCI to lay emphasis on applied aspects of physiology practicals has been adequately taken care of in this book.

Contents: Preface ۲ General Introduction * General Laboratory Instruction * Section I: (Human Experiments) Hematology) & Introduction to Hematology * Collection of Blood Samples * Estimation of Hemoglobin Concentration * Determination of Hematocrit & Study of the Compound Microscope & Hemocytometry & Total RBC Count * Determination of Red Blood Cell Indices & Total Leucocyte Count & Preparation and Examination of Blood Smear & Differential Leucocyte Count * Arneth Count * Absolute Eosinophil Count * Determination of Erythrocyte Sedimentation Rate * Determination of Blood Group * Osmotic Fragility of Red Cells * Determination of Bleeding Time and Coagulation Time * Platelet Count * Respiratory System & Stethography & Clinical Examination of the Respiratory System * Effect of Posture on Vital Capacity & Cardiovascular System * Electrocardiography * Clinical Examination of the Radial Pulse * Measurement of Blood Pressure * Effect of Posture on Blood Pressure and Heart Rate * Effect of Exercise on Blood Pressure and Heart Rate * Clinical Examination of the Cardiovascular System * Nervous System * Clinical Examination of the Sensory System & Clinical Examination of the Motor System * Clinical Examination of the Cranial Nerves * Special Senses * Perimetry * Visual Acuity * Colour Vision & Hearing Tests & Examination of Taste and Smell * Section II: (Amphibian and Mammalian

Experiments) Experiments on Frog's Nerve and Muscle * Appliances * Nerve-Muscle Preparation * Simple Muscle Twitch * Effect of Temperature on Simple Muscle Twitch * Genesis of Tetanus * Genesis of Fatigue. * Experiments On Frog's Heart And Blood Vessels * Normal Cardiogram of Frog * Effect of Temperature on Frog's Heart * Effect of Stannius Ligature on Frog's Heart * Experiments On Frog's Nervous System * Postural Reflexes in Frog * Index of Normal Values * *Bibliography * Index*

2006	296 pp.	Paperback
978-81-250-3050-8		₹ 395.00

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 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.

Contents: Development of the Breast * Anatomy of the Breast * Physiology of the Breast

MEDICAL SCIENCES

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

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GENERAL INTEREST

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 * Astronomy in the Indo-Malay Archipelago Atomism

 Atreya
 Bakhshali
 Manuscript
 Manuscript

 Baudhayana * Bhaskara I * Bhaskara II * Al-Biruni Brahmagupta
 Bricks
 Calculus
 Calendars
 Candrasekhara Samanta & Caraka & City Planning & 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 * Mahavlra * Mahendra Suri * Makaranda * Maps 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 * Sailkara Variyar * Satananda * Science as a Western Phenomenon * Sexagesimal System * Sphujidhvaja Sridhara
 Sripati
 Sulbasutras
 Suryasiddhanta
 Suryasidhanta
 Suryasiddhanta
 Suryasiddhanta
 * Susruta * Technology and Culture * Textiles * Time * Trigonometry * Vakyakarana * Values and Science * Varahamihira * Vatesvara * Weights and Measures in the Indus Valley & Western Dominance * Wind Power * Yavanesvara * Yoga * Yuktibhasa

of Jyesthadeva * Zero * Zij * Zodiac * List of Contributors * Index

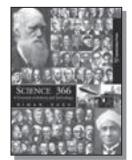
> Available in print and e-book format. For details, visit www.universitiespress.com.

2007	492 pp.	Hardback
978-81-7371-555-6		₹1,025.00

Science 366: A Chronicle of Science and Technology

Biman Basu

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



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

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

The entries are arranged chronologically. An entry for the date of birth of a scientist or inventor gives a brief biography of the person, while an

GENERAL INTEREST

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.

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

2008	712 pp.	Paperback
978-81-7371-607-2		₹1,100.00

Top 1000 Scientists: From the Beginning of Time to 2000 AD

Philip Barker Scholar of the History of Science



The history of scientific progress is full of surprises. How many people realise, for example, that the term 'electricity' was coined in 1646?, or that Benjamin Franklin invented the lightning conductor?, that even a seemingly recent invention such as the television turns out to have been patented in 1884.

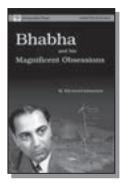
This book covers science and scientists from the earliest recorded days right up to the new millennium, and will become an invaluable reference work as well as a delight to dip into.

2002	448 pp.	Paperback
978-81-7371-210-4		₹ 695.00

BIOGRAPHIES

Bhabha and His Magnificent Obsessions

G Venkataraman



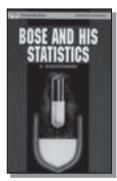
This book is about the remarkable scientist Homi Jehangir Bhabha who, at the age of eighteen, went to Cambridge to study physics and started his research career there. In 1939, when Bhabha came to India on a short vacation, he was forced to stay on as the Second World War broke out. This was, of course,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

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

1994	222 pp.	Paperback
978-81-7371-007-0		₹ 310.00

Bose and His Statistics

G Venkataraman



This book describes a monumental discovery made by Satyendranath Bose. It also helps

the reader take a step closer in understanding Bose—the scientist—and describes the events that surround this exciting discovery.

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

1992	136 pp.	Paperback
978-81-7371-036-0		₹ 225.00

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.

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

1992	144 pp.	Paperback
978-81-7371-035-3		₹ 225.00

Raman and His Effect

G Venkataraman



This book deals with the famous Scattering Effect discovered by Sir C. V. Raman. It gives us deep insights into the character of this famous scientist and vividly describes the circumstances surrounding the discovery.

1995	108 pp.	Paperback
978-81-7371-008-7		₹ 225.00

Saha and His Formula

G Venkataraman



A great leap forward in unravelling the mysteries of the Sun occurred way back in 1920 when Meghnad Saha made an important discovery that paved the way for a systematic study of stellar atmospheres in general. This book is about that great discovery and the man who made it.

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

1995	206 pp.	Paperback
978-81-7371-017-9		₹ 250.00

General Interest

Agenda of the Apprentice Scientist, The

Nicole Ostrowsky

Professor Emeritus, University of Nice Sophia Antipolis, France



Here are *365 activities* to discover that science is a part of our daily life, that you can take part in

GENERAL INTEREST

it with pleasure, that it can be easy, sometimes surprising and funny, and always *accessible to everyone, from 7 to 107*. All you need to have is a curiosity about the world around you.

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

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

Tell me and I'll forget, Show me and I may remember, Involve me and I'll understand.

We recommend that you visit the link: http://apprenticescientist.com/#/topics/3922325

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

2012	396 pp.	Paperback
978-81-7371-753-6		₹ 650.00

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

D M Bose (Ed.)

Formerly Director, Bose Institute, Kolkata, India

S N Sen (Ed.)

Formerly Registrar, Indian Association for the Cultivation of Science, Kolkata, India

B V Subbarayappa (Ed.)

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



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	980 pp.	Paperback
978-81-7371-619-5		₹1,095.00

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

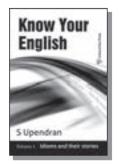
Years * Science Education and Its Beginnings in Calcutta * Calcutta * Scattering of Light * Discovery of the Raman Effect * Dacca * Bonds of Magnetism I: The Dacca Phase * Winds of Change * Bonds of Magnetism II: The Calcutta Phase * Graphite and Its anomalous Diamagnetism * Honours and Offers * The 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*

2011	516 pp.	Hardback
978-81-7371-748-2		₹ 975.00

Know Your English Volume 1: Idioms and their stories

S Upendran

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



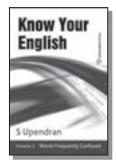
Idioms and their stories is the first of a four volume series, based on the popular column, Know Your English, which has been a regular feature in The Hindu since 1982. Teachers, students, and those who are keen on honing their speaking and writing skills will find the series useful. This volume contains 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.

2011	216 pp.	Paperback
978-81-7371-729-1		₹ 225.00

Know Your English Volume 2: Words frequently confused

S Upendran

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



Words Frequently Confused, the second volume in the four volume series, Know Your English, is based on S. Upendran's popular weekly column 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.

2012	416 pp.	Paperback
978-81-7371-730-7		₹ 395.00

FORTHCOMING

Know Your English, Volume 3

S Upendran

Should 'history sheeters' be put in jail for 'Eve teasing'? If I'm 'pushing 60', should I 'put in my papers'? Is it 'a university' or 'an university'? Do students 'by heart an answer' or do they 'learn an answer by heart'? Is it 'cope up with' or 'cope with'? Are 'top rankers' expected to have a 'good command over' the English language? Does one 'get down' or 'get off' at Nagpur? Is it possible to 'eat someone's head' and 'sit on it' too? How does one 'cut' a joke and give someone a 'nose cut'? These are just a few of the questions that the third volume in the Know Your English series

GENERAL INTEREST

will provide answers to. 'Grammar and Usage' will highlight many of the common errors that we Indians make when we speak or write in English. Every entry will provide a simple, but detailed explanation of the mistakes we make. Anyone who is 16 years of age or older will find the book useful.

FORTHCOMING

Know Your English Volume 4

S Upendran

48

The fourth and final volume of this very popular series deals with vocabulary and pronunciation. In particular, the meaning and pronunciation of individual words and everyday expressions, commonly used in India. In addition, numerous examples and the etymology of words have also been provided.

Paths of Innovators, Volume 1

R Parthasarathy

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



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

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

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

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