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3D Printing and Microfluidics in Dermatology

Innovations in Drug Delivery

Edited by Madhulika Pradhan, Krishna Yadav

3D Printing and Microfluidics in Dermatology provides thorough exploration and applications of 3D printing and microfluidics within the field of dermatology. It investigates various methods utilized in these fields, such as 3D bio-printing, nano-transports, microscopic fabrication, and device development. The book not only explains practical applications but also delves into the design principles crucial for implementing these techniques using specific materials tailored to their intended purposes. This book targets graduate students and researchers in fields such as 3D printing, dermatology, drug delivery, bioengineering, and pharmaceutical sciences.

Advanced Soft Electronics in Biomedical Engineering

Materials, Manufactures, and Applications

Edited by Mengxiao Chen

The book presents the latest advances in soft electronics in biomedical engineering and its potential applications in various biomedical fields. The contributors provide comprehensive coverage of how soft electronics are used in diagnostics and monitoring, medical therapy, neural engineering, and wearable and implantable systems. In particular, some emerging research areas such as advanced soft robotics, fiber sensing technologies, and power optimization strategies are explored. The book will benefit researchers, engineers, and advanced students in biomedical engineering, electrical and computer engineering, and materials science.

Algal Biotechnology

Current Trends, Challenges and Future Prospects for a Sustainable Environment

Edited by Nivedita Sahu

This book initiates with a general introduction to microalgae and algal biotechnology with subsequent discussions on all the significant aspects of applied biotechnology, bio-mediation, nano applications, multidimensional uses of algae as a biofilterizer, and a source of bioactive compounds and phytochemicals. Major themes of the book include algae and the environment, bio-mediation using algae, algal-omics and applications and large scale bioprocesses for algal cultivation, its constraints and challenges. This volume is aimed at graduate students and researchers in biotechnology, bioenergy, renewable energy, energy, fuel and petrochemicals, and wastewater.

Advanced Soft Electronics in Biomedical Engineering

Two Volume Set

Edited by Nivedita Sahu

This two-volume set gives out interdisciplinary expression at present-day practical challenges and recent developments in algal biotechnology with a focus on algal issues and its pertinent applications. It covers algae and the environment, algal-omics, bioremediation using algae, algal bioengineering, and industrial trends, and algae-based technology to treat industrial effluents and large-scale cultivation for algal bioprocesses. It explains algal biomass as a potential source of biofuel, biofilterizer, bioactive compounds and phytochemicals. This book is aimed at graduate students and researchers in biotechnology, bioenergy, renewable energy, energy, fuel and petrochemicals, and wastewater.

Artificial Intelligence Technology in Healthcare

Security and Privacy Issues

Edited by Neha Sharma

This book focuses on current issues with the patient’s privacy and data security including data breaches in healthcare organizations, unauthorized access to patient’s information, and medical identity theft. It explains recent breakthroughs and problems in deep learning security and privacy issues, emphasizing current state-of-the-art methods, methodologies, implementation, attacks, and countermeasures. It examines the issues related to develop AI-based security mechanisms which can gather or share data across healthcare applications securely and privately.

This book is aimed at researchers and graduate students in bioengineering, artificial intelligence, and computer engineering.
Bionanomaterials for Industrial Applications
Edited by Shakeel Ahmed
This book is a comprehensive guide to the current state of bionanomaterials research and their prospective applications in a variety of industrial sectors. The book discusses the properties of bionanomaterials, types and their potential applications in various disciplines, such as biomedicine, food industry, environment, etc. It provides a comprehensive overview of the current state of bionanomaterials research and their potential applications, making it an indispensable resource for anyone interested in learning more about this dynamic and rapidly developing field. It is designed for researchers, scientists, engineers, and graduate students working in the field of bionanomaterials.

Emerging Materials and Technologies for Bone Repair and Regeneration
Edited by Ashok Kumar IIT Kanpur, India, Sneha Singh Birl Institute of Technology, Mesra, Prerna Singh IIT Kanpur, India
Series: Emerging Materials and Technologies
This book emphasizes on advancement in the field of bone repair and regeneration. It introduces bone development, repair and regeneration emphasizing the correlation of the processes including details about different biomaterials and technologies involved in the fabrication, characterization of bone related scaffolds and implants. The realm of nanotechnological intervention and folklore phymedicines and their prospects in regenerating bone is explored including major bone related disease conditions, infection, and their tackling via tissue engineering strategies. This book is aimed at graduate students and researchers in biomedical and tissue engineering, and biomaterial sciences.

Federated Deep Learning for Healthcare
A Practical Guide with Challenges and Opportunities
Edited by Amandeep Kaur Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India, Chetna Kaushal Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India, Md. Mehedi Hassan Khulna University, Bangladesh, Si Thu Aung University at Buffalo, Buffalo, USA
Series: Advances in Smart Healthcare Technologies
This book provides a practical guide to federated deep learning for healthcare including fundamental concepts, framework, and the applications comprising of domain adaptation, model distillation, and transfer learning. It covers concerns in model fairness, data bias, regulatory compliance, and ethical dilemmas. It investigates several privacy-preserving methods like homomorphic encryption, secure multi-party computation, and differential privacy. It will enable readers to build and implement federated learning systems that safeguard private medical information. It is aimed at graduate students and researchers in federated learning, data science, AI/machine learning, and healthcare.

Evolution of Machine Learning and Internet of Things Applications in Biomedical Engineering
Edited by Arun Kumar Rana Galgotas College of Engineering and Technology, India, Vishnu Sharma IIT Engineering College, India, Sanjeev Kumar Rana Maharishi Markandeshwar (Deemed to be University), India, Vijay Shanker Chaudhary Galgotas College of Engineering and Technology, India
Series: Emerging Trends in Biomedical Technologies and Health Informatics
This book provides a platform for presenting machine learning-enabled healthcare techniques and offers a mathematical and conceptual background of the latest technology. It describes machine learning techniques along with the emerging platform of the Internet of Medical Things used by practitioners and researchers around the world. The book will be beneficial for new researchers and practitioners working in the biomedical and healthcare fields. It will also be suitable for a wide range of readers who may not be scientists but who are also interested in the practices of medical image retrieval, and brain image segmentation.

Engineering of Human Tissues and Implants
An Evolutionary Approach to Implant Design
Frederick H. Silver Dept. of Pathology, Robert Wood Johnson Medical School, Rutgers the State University of New Jersey
This book presents information on biological control systems, mechanotransduction, tissue structure, and function, and properties that can be integrated together to provide improved implant and device designs. This information is needed to develop new diagnostic tests and instruments that provide early diagnostic tests and treatments for diseases. It also introduces mechanotransduction as it relates to implant design with an overview of materials and their use in applications to treat wounds, burns, facial, hernial, opthalmic, oral, cardiovascular, and tendon/ligaments.

Handbook of Texture Analysis
Generalized Texture for AI-Based Industrial Applications
Edited by Ayman El-Baz University of Louisville, Kentucky, USA, Mohammad Ghazal, Jasjit S. Suri Global Biomedical Technologies, Inc., CA, USA
This book examines four major application domains related to texture analysis and their relationship to AI-based industrial applications: texture classification, texture segmentation, shape from texture, and texture synthesis. Aimed at researchers, academics, and advanced students in biomedical engineering, image analysis, cognitive science, and computer science and engineering, this is an essential reference for those looking to advance their understanding in this applied and emergent field.
Handbook of Texture Analysis
AI-Based Medical Imaging Applications
Edited by Ayman El-Baz
University of Louisville, Kentucky, USA
Mohammed Ghazal, Jasjit S. Suri
Global Biomedical Technologies, Inc., CA, USA

This volume presents important branches of texture analysis methods which find a proper application in AI-based medical image analysis. Aimed at researchers, academics, and advanced students in biomedical engineering, image analysis, cognitive science, and computer science and engineering, this is an essential reference for those looking to advance their understanding in this applied and emergent field. Standard Blurb:

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June 2024:270
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eBook: 978-0-367-48608-2
* For full contents and more information, visit: www.routledge.com/9780367483456

Handbook of Texture Analysis, Two-Volume Set
Two-Volume Set
Edited by Ayman El-Baz
University of Louisville, Kentucky, USA
Mohammed Ghazal, Jasjit S. Suri
Global Biomedical Technologies, Inc., Roswell, USA

This two-volume handbook provides a comprehensive view of texture analysis in both AI-based industrial and medical imaging applications. Aimed at researchers, academics, and advanced students in biomedical engineering, image analysis, cognitive science, and computer science and engineering, this handbook is an essential reference for those looking to advance their understanding in this applied and emergent field.

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* For full contents and more information, visit: www.routledge.com/9781032727417

Healthcare Services in the Metaverse
Game Theory, AI, IoT, and Blockchain
Edited by Saurav Mallik
Harvard Univ., Anjan Bandyopadhyay, Ruifeng Hu, Pawan Kumar Singh, Soumadipt Ghosh, Suajita Swain

Series: Emerging Trends in Biomedical Technologies and Health Informatics

This book covers the application of game theory, IoT and metaverse-related biomedical and healthcare applications. The book bridges the gap between radiologists and Artificial Intelligence (AI)-driven automated systems by investigating various techniques with a game theoretic approach. The book is written to help individuals across the academia, research, and healthcare practitioners as well as for those who work in biomedical, healthcare, IoT, artificial intelligence, metaverse, virtual reality, blockchain and related technologies.

CRC Press
May 2024:240
Hb: 978-1-032-58080-7: £105
eBook: 978-1-032-44925-6
* For full contents and more information, visit: www.routledge.com/9781032580807

Linear Partial Differential and Difference Equations and Simultaneous Systems with Constant or Homogeneous Coefficients

Luis Manuel Braga da Costa Campos
University of Lisbon, Portugal, Luis Antonio Raio Vilela

Series: Mathematics and Physics for Science and Technology

This presents six solution methods for linear partial differential equations (PDEs) with constant coefficients. The characteristic polynomial method is extended to five classes, including linear PDEs with homogeneous power coefficients, finite difference equations and simultaneous systems of both. Applications include solutions of the Laplace, heat, diffusion, telegraph, bar, and beam equations. The free and forced solutions are considered together with boundary, initial, asymptotic, starting, and other conditions. The book suits graduate students and engineers working with mathematical models and advanced technology and can be applied to the physical sciences and applied mathematics.

CRC Press
June 2024:242
Hb: 978-1-032-62473-0: £76.99
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* For full contents and more information, visit: www.routledge.com/9781032624730

Multifunctional Magnetic Nanoparticles in Therapy, Biology, and Pharmacy
Synthesis, Fundamentals and Applications
Edited by Elyor Berdimurodov, Chaudhery Mustansar Hussain, Burak Tuzun

This definitive guide provides readers with a comprehensive overview of multifunctional nanoparticles, delving into their novel synthesis methods, unique properties, and diverse applications in therapy, biology, and pharmacy. The book explores established and emerging techniques for synthesizing magnetic nanoparticles, enabling readers to understand how to tailor nanoparticles with desired traits. This book is written primarily for scientists, researchers, and engineers working in the fields of nanotechnology, materials science, biomedical engineering, and pharmaceutical sciences.

CRC Press
November 2024:392
Hb: 978-1-032-71919-1: £140
eBook: 978-1-003-30558-3
* For full contents and more information, visit: www.routledge.com/9781032719191

Nanobiotechnology
Applications of Nanomaterials in Biotechnology, Medicine and Healthcare
Edited by Tridib Kumar Bhowmick, Kaylan Gayen, Sunil K. Maity

This book covers the topics related to drug delivery, biomaterials, drug design, formulation development, nanoscience, and nanotechnology. It describes the fundamental concepts in nanotechnology and their different applications in biotechnology to solve engineering challenges and generate new areas of technological development. This book will be useful for students, researchers, scientists, academicians, and industrial manufacturers to understand the importance and applicability of nanomaterials in the field of biotechnology and medical science.

CRC Press
May 2024:356
Hb: 978-1-032-30387-1: £125
eBook: 978-1-003-30387-1
* For full contents and more information, visit: www.routledge.com/9781032303871
Nanobiotechnology for Sustainable Food Management

Edited by Eduardo Alberto López-Maldonado
Universidad Autónoma de Baja California, Mexico, Amber R. Solangi University of Sindh, Pakistan, Fabio Granados-Chinchilla San Pedro Montes de Oca, Costa Rica

Among the most novel and ever-growing approaches to improving the food industry is nanobiotechnology. In this book, the prospective role of nanobiotechnology in food which includes quality control and safety through nanosensors and biosensors, targeted delivery of nutrients, controlled release of nutrients, proteins, antioxidants, and flavors through encapsulation and enzymatic reactions for food fortification of fat-soluble compounds is discussed. Along the chapters of this book, nanobiotechnological techniques are addressed in detail with specific emphasis on food science applications. This book is aimed at researchers and graduate students in nanotechnology, and food engineering.

Nanomaterials and Point of Care Technologies

Edited by Sushma Dave, Jayashankar Das, Mika Sillanpää

Point-of-care (POC) diagnostic devices are predominantly used for the diagnosis and monitoring of diseases. To make these technologies scalable for manufacturing, user-friendly, inexpensive, sensitive, and rapid, combination of such devices with nanomaterials is required. This book deals with the new emerging fields such as POC tech, advanced nanomaterials using nanomaterials, technologies, and applications in diagnosis. Current advances for the application of nanomaterials such as carbon nanotubes, graphene, and magnetic nanoparticles in POC devices and future directions are reviewed. The book aims at Researchers and professionals in nanotechnology & biomedical engineering.

Nanotherapeutics for Inflammatory Arthritis

Design, Diagnosis, and Treatment

Edited by Vivek Mishra
Arity University, India, Ramendra Pati Pandey SRM University, India, Anjali Priyadarshini SRM University, India, Chung-Ming Chang Chang Gung University, Taiwan (R.O.C.), Elcio Leal
Federal University of Para, Brazil

Series: Advances in Bionanotechnology

This book highlights nanobiotechnology and its therapeutic applications in the field of inflammatory arthritis, the interaction of nanomaterials in the biological systems, and clinical development of nanomedicines. It also covers the discovery of personalized therapeutics, diagnostics, and nanoparticle delivery systems, the role of bioinformatics nanobiotechnology in personalized oncology. Use of nanosensors for the detection and current challenges in the development of personalized medicine is explained including recent nanotechnology-based strategies. This book is aimed at Researchers and Professionals in Nanotechnology, Biomaterial, Drug Delivery, and Inflammatory Arthritis.

Nanobiotechnology for Sustainable Food Management

Wireless Microwave Sensing

James C. Lin
University of Illinois at Chicago, USA

This book explains the principles and techniques of microwave physiological sensing and introduces fundamental results of noninvasive sensing of physiological signatures, signs, and life detection. Techniques for contact and remote sensing of circulatory and respiratory movements and physiological volume changes are discussed. This book is intended for researchers and professionals in biomedical, electrical, and computer engineering with an interest in antenna, sensors, microwave, signal processing, and medical applications. It will also be of interest to healthcare professionals, technologists, and practitioners interested in noninvasive physiological sensing and patient monitoring.

Nanoveol Antibacterial Biomaterials for Medical Applications and Modeling of Drug Release Process

Edited by Vesna Mišković-Stanković, Teodor Atanackovic

This book provides a comprehensive review of synthesis and physicochemical and biological characterization of novel antibacterial biomaterials produced according to original procedures and aimed at medical applications such as wound dressing, soft and hard tissue implants, drug delivery devices and carriers for cell cultivation. This book is intended for all researchers working in the fields of biomaterials and biomedical engineering, as well as medical professionals, science and engineering graduate students, academics, and industrial researchers.

Recent Advances in Management and Engineering

Proceedings of Recent Advances in Management and Engineering

Edited by Ilona Paweloszuk, Dorota Jelenek, Munish Sabharwal, Narendra Kumar, Karlibaeva Raya

It is with great pleasure that I present to you the proceedings of our Recent Advances in Management and Engineering held on November 24–27, 2023 in Male, Maldives. This conference represents a milestone in our ongoing journey towards academic excellence where we aspire to become a renowned platform for the exchange of ideas, collaboration, networking, and learning.
Recent Technological Advances in Engineering and Management

Recent Technological Advances in Engineering and Management
Proceedings of recent technological advances in engineering and management

Edited by Dalia Younis, Ilona Paweloszek, Mamta Chahar, Narendra Kumar, Nino Abesadze, Preeti Narooka

In an epoch characterized by swift technological progress and digital ingenuity, the dynamics of management continually undergo transformation. The conference served as a congregation point for thought leaders, industry professionals, academics, and innovators from across the globe, fostering the exchange of ideas and serving as a catalyst for transformative change.

CRC Press
September 2024:320
Pb: 978-1-032-87202-5: £45.99
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Smart Micro- and Nanomaterials for Pharmaceutical Applications

Smart Micro- and Nanomaterials for Pharmaceutical Applications

Edited by Ajit Behera National Institute of Technology, Rourkela, Arpan Kumar Nayak, Ranjan Kumar Mohapatra, Ali Ahmed Rabaan
Series: Emerging Materials and Technologies

Smart drug delivery refers to a targeted drug delivery or precision drug delivery system that allows drugs to be administered to a specific location in the body or at a specific time with enhanced precision and control. This approach has several advantages, including maximizing the therapeutic effects of a drug while minimizing side effects. This book presents various stimuli-responsive micro- and nanomaterials for pharmaceutical industries. This reference work is written to support researchers in the fields of materials engineering and biotechnology with the goal of improving the diagnosis and treatment of disease and patient quality of life.

CRC Press
August 2024:352
Hb: 978-1-032-74261-8: £155
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Smart Micro- and Nanomaterials for Drug Delivery

Smart Micro- and Nanomaterials for Drug Delivery

Edited by Ajit Behera National Institute of Technology, Rourkela, Arpan Kumar Nayak, Ranjan Kumar Mohapatra, Ali Ahmed Rabaan
Series: Emerging Materials and Technologies

Smart drug delivery at both the micro- and nanoscale is an evolving field with numerous potential applications. It has the potential to revolutionize drug therapy by making treatments more effective, reducing side effects, and improving patient outcomes. This book presents a comprehensive review of the most recent studies on smart micro- and nanomaterials with a focus on their “smart” activity for formation of targeted and responsive drug-delivery carriers. This reference work is written to support researchers in the fields of materials engineering and biotechnology with the goal of improving the diagnosis and treatment of disease and patient quality of life.

CRC Press
August 2024:442
Hb: 978-1-032-74260-1: £150
* For full contents and more information, visit: www.routledge.com/9781032742601

The Physics and Mathematics of Electroencephalogram

The Physics and Mathematics of Electroencephalogram

Dezhong Yao University of Electronic Science and Technology of China

This book focuses on a systematic introduction to the knowledge of mathematics and physics of EEG and discusses an in-depth application of EEG and the development of new methods and technologies for mining and analyzing EEG. This book can be used as reference for researchers in neuroengineering, cognitive neuroscience, neurology, psychiatry, applied mathematics, and those researching brain-like intelligence.

CRC Press
June 2024:476
Hb: 978-1-032-62247-7: £155
* For full contents and more information, visit: www.routledge.com/9781032622477

Smart Micro- and Nanomaterials for Drug Delivery and Pharmaceutical Applications, Two-Volume Set

Smart Micro- and Nanomaterials for Drug Delivery and Pharmaceutical Applications, Two-Volume Set

Edited by Ajit Behera National Institute of Technology, Rourkela, Arpan Kumar Nayak, Ranjan Kumar Mohapatra, Ali Ahmed Rabaan
Series: Emerging Materials and Technologies

Clinically approved micro- and nanobased products have impacted treatment of predominant diseases including cancer, diabetes, and different immune disorders. This Two-Volume Set presents a comprehensive overview of the most recent studies on smart micro- and nanomaterials for formation of targeted and responsive drug-delivery carriers and pharmaceutical applications. This wide-ranging reference work is written to support researchers in materials engineering and biotechnology with the goal of improving diagnosis and treatment of disease and improve patient quality of life.

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Syncope
From Etiopathogenesis to New Therapeutic Options

Edited by Tolga Aksu, Carlos A. Morillo

Syncope is a common condition related to transient loss of consciousness due to global cerebral hypoperfusion and caused by a variety of aetiologies. Although it is self-limited, and usually benign, syncope can be the harbinger of life-threatening heart rhythm problems due to cardiac conditions. This book provides a detailed review of etiopathogenesis and a state-of-the-art update on therapeutic options offering recommendations based on the guidelines and experience of experts while discussing procedures and tests with their indications, methodology, interpretation, and limitations.

2ND EDITION
Transcatheter Aortic Valve Implantation
Current and Future Developments

Edited by Patrick W. Serruys, Alain Cribier, University Hospital Charles Nicolle, Rouen, Helene Eltchaninoff Centre Hospitalier Universitaire de Rouen, France, Eberhard Grube University Hospital Bonn, Germany, Raj Makkar Smidt Heart Institute, USA, Yoshinobu Onuma CORRIB Core Laboratory, Ireland, John G. Webb St. Paul’s Hospital, Vancouver, BC, Canada, Martin B. Leon Columbia University Irving Medical Center, USA

Written by pioneers in the field of interventional cardiology, this new edition provides readers with the information and expert guidance needed to perform safe and effective transcatheter aortic valve implantation/replacement (TAVI/TAVR). The book is supplemented by visual aids, including more than 300 illustrations and videos.
The History and Compilation of Zhang Zhongjing’s Wu Zang Lun

Qiang Cao, Yun Xiao

The History and Compilation of Zhang Zhongjing’s Wu Zang Lun stands as the first comprehensive work in English detailing the history and compilation of Zhongjing’s Treatise on the Five Zang Organs (Wǔ Záng Lùn). It uses storytelling to illuminate the historical context of the five versions found in Dunhuang. By exploring the origin and development of these versions this book not only delves into traditional Chinese medicine but also intertwines fascinating elements of humanities, history, and geography. The reader is offered insight into the Dunhuang manuscripts’ background and the significance of Zhongjing’s contributions to medical literature.

Towards Holistic Medicine

Bing Yuan, HK Modern Chinese Medicine R&D Center, Yau Ma Tei, Kowloon, Hong Kong, China

In recent years, the integrated research on living organisms initiated by systems biology, along with the efforts of precision medicine to tailor treatment plans based on the individual characteristics of each patient have opened up the process of modern biology and medicine returning to Chinese medical traditions in terms of ideas. Under the larger perspective of the development and evolution of Eastern and Western medicine, biology, and even natural science for hundreds of years, this book follows the evolution of modern scientific methods and reveals the inevitable trend of future medicine—holistic medicine.

Traditional and Herbal Medicines for COVID-19

Edited by Jen-Tsung Chen

Traditional and Herbal Medicines for COVID-19 explores promising ways to manage COVID-19, post-COVID, and long-COVID conditions. The management plans are based on anti-virus activity, anti-inflammatory, and diverse health benefits of traditional and herbal medicines through a comprehensive summarization of scientific literature by experts in the field. It presents information on a view of the origin of SARS-CoV-2, emerging variants and pathogenesis, and it proposes renewed strategies of diagnostics, vaccines, and therapies.
3RD EDITION

**Atlas of Genodermatoses**

Gianluca Tadini Istituto di Scienze Dermatologiche, Italy, Michela Brenna Istituto di Scienze Dermatologiche, Italy, Francesca Besagni, Lidia Pezzani

This text presents a comprehensive illustrated overview of almost 200 inherited diseases of the skin, hair, and nails. Examples have been expanded, with new images added to provide clear examples, alongside coherent and comprehensive explanations to enable clinicians to easily identify and source relevant information. The entry for each disease provides background, followed by common characteristics, manifestations, laboratory findings, genetics, cutaneous and extracutaneous findings, differential diagnosis, an overview of complications and recommended follow-ups. In its third edition, this text becomes an invaluable resource for dermatologists and pediatricians.

CRC Press
May 2024:339
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Hb: 978-0-367-96418-6: £69.99
eBook: 978-1-003-28502-1
* For full contents and more information, visit: www.routledge.com/9781032257907

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**Fungal Infections of the Nail and Scalp**

The Current Approach to Diagnosis and Therapy

Edited by Robert Baran, Eckart Hanke University of Berne, Switzerland, Roderick Hay Queens University, Belfast, Antonella Tosti University of Miami, USA, Bertrand Richert CHU Brugmann, Brussels

This new edition of a bestselling text has been expanded to include scalp infections; as before, this illustrated text has been written by clinicians for clinicians, to provide an authoritative guide to the steps needed to identify and effectively manage the patient with fungal nail or scalp infection.

CRC Press
November 2024:208
Pb: 978-1-032-46435-1: £69.99
Hb: 978-1-032-46432-0: £180
* For full contents and more information, visit: www.routledge.com/9781032464305

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**Hair Loss and Restoration**

Edited by Jerry Shapiro University of British Columbia, Vancouver, Canada, Kristen Lo Sico NYU Langone Health, USA, Nina Otberg, Donna Cummins Salford Royal Hospital, UK, Hsiao-Han Tuan Tsinghua University, China

This new edition of an established resource provides an extensive look at the practical management, both medical and surgical, of all forms of hair loss. Proper examination of the patient with hair loss is discussed in depth, as is androgenetic alopecia, the most common cause of hair loss. This compact and easy-to-read book remains a valuable resource for professional training and use.

CRC Press
August 2024:136
Pb: 978-1-032-38297-5: £64.99
Hb: 978-1-032-38296-8: £115
eBook: 978-1-003-34438-4
* For full contents and more information, visit: www.routledge.com/9781032382975

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**Clinical Management of Acute Skin Trauma**

Joel W. Beam

This text, for professional athletic training students, practicing athletic trainers, and other health-care professionals responsible for acute wound care, aims to facilitate learning of the knowledge, skills, and clinical abilities required to manage such acute skin trauma effectively. It acts as a comprehensive guide to the reader from the initial injury assessment through complete wound healing using evidence-based practice techniques. Color photographs, step-by-step procedures of intervention techniques, evidence summaries from the literature, and clinical expertise play an integral role in enhancing the material.

CRC Press
July 2024:192
Pb: 978-1-032-20666-4: £59.99
* For full contents and more information, visit: www.routledge.com/9781638220664

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**Problem Based Learning in Dermatology**

Edited by Rithi John Chandy Rutgers Health Community Medical Center, USA, Rima I. Ghamrawi Brookwood Baptist Health, USA, Veronica Emmerich University of South Carolina, USA, Courtney E. Heron Henry Ford Health, Department of Dermatology, USA, Steven R. Feldman Wake Forest University School of Medicine, USA, William H. Huang Wake Forest University School of Medicine, USA

This book presents 15 cases as studies in how to reach a diagnosis from a presenting patient. It covers 15 major topics in clinical dermatology as a succinct reference for dermatology clinicians in practice, also offering a concise revision guide for those in training, from medical students and resident physicians preparing for higher examinations to established physicians in their continuing professional development.

CRC Press
August 2024:138
Hb: 978-1-032-57137-9: £115
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**Atlas of Nail Signs and Disorders with Clinical and Onychoscopic Correlation**

Nilton Di Chiacchio Hospital do Servidor Público Municipal de São Paulo, São Paulo, Brazil, Nilton Gioia Di Chiacchio, Robertha Carvalho de Nakamura Instituto di Dermatologia, Santa Casa da Misericórdia, Rio de Janeiro, Brazil, Michela Starace University of Bologna, Italy, Matilde Iorizzo, Robert Baran Nail Disease Center, Cannes, France

This atlas allows dermatologists and resident and qualified professionals in other disciplines to reach a quick diagnosis, with a wealth of clinical and dermatoscopic images for convenience. Key features - Provides a quick and straightforward guide to diagnosis for medical professionals. Allows residents and professionals in other disciplines to get the essential points rapidly. Presents the expertise of some of the most eminent nail specialists internationally.

CRC Press
April 2024:120
Hb: 978-1-032-57137-9: £115
eBook: 978-1-003-34438-4
* For full contents and more information, visit: www.routledge.com/9781032382975
**Skin and Pregnancy**

A Comprehensive Guide for Clinical Practice

Edited by Rashmi Sarkar, Lady Hardinge Medical College, New Delhi, India, Swati Agrawal, Lady Hardinge Medical College, New Delhi, India, Soumya Jagadeesan, Amrita School of Medicine, Kochi, India

This text fills the gap between medical specialties in this topic, covering the dermatological diseases appearing during or affected by pregnancy; it also looks at safe drug usage and the cosmetic and aesthetic concerns of the pregnant woman. Most of the conditions discussed require a combined approach and treatment by the dermatologist and gynaecologist and obstetrician, and this text establishes a united therapeutic approach for all practitioners.

CRC Press
November 2024: 224
Pb: 978-1-032-58347-1: £84.99
Hb: 978-1-032-58348-8: £150

* For full contents and more information, visit: [www.routledge.com/9781032583471](http://www.routledge.com/9781032583471)

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**Textbook of Cosmetic Dermatology**

Edited by Robert Baran, Nail Disease Center, Cannes, France, Howard I. Maibach, University of California, USA,
Series: Series in Cosmetic and Laser Therapy

This text documents the science that lies behind the expanding field of cosmetic dermatology so that clinicians can practice with confidence and researchers can be fully aware of the clinical implications of their work. New chapters have been added to this edition on skin bioengineering, skin imaging, sunscreens, gel nail polish, management of hair loss, cosmetics and moisturizers in acne management, cryolipolysis, and radiofrequency for minimally invasive body contouring, amongst others, and chapters have been updated throughout to keep this at the forefront of work and practice.

CRC Press
October 2024: 518
Hb: 978-1-032-27067-8: £150

* For full contents and more information, visit: [www.routledge.com/9781032270678](http://www.routledge.com/9781032270678)
Emergency Capnography
Hugh Greenbaum
This portable and practical pocket guide explains how capnography works both physiologically and electronically, helping clinical staff to correctly apply the tool and to appropriately interpret the numeric and graphic displays. Ensuring that the value of capnography can be maximized to the benefit of patients, the book is an essential primer to capnography for those studying for and practising within the emergency medical services, and a convenient reference for other emergency department personnel, explaining how to interpret the data displayed in the context of various conditions, as well as how the care provider may respond to that data.

CRC Press
August 2024:132
Pb: 978-1-032-79346-7: £22.99
Hb: 978-1-032-79347-4: £99.99
* For full contents and more information, visit: www.routledge.com/9781032793467

Key Trials in Intensive Care Medicine
Passing the Final FFICM
Muzzammil Ali, Joanna Kondratowicz
Series: Key Trials
Compact and easy to read, this essential guide to over 160 key papers that Intensive Care doctors preparing for postgraduate exams or embarking upon an intensive care rotation will find invaluable. Each of the key trials, studies, or meta-analyses has been chosen for their educational value and enduring impact in Intensive Care Medicine. Tailored specifically to the OSCE and SOE components of postgraduate examinations such as the FFICM, the content provides concise, efficient summaries and key results, making it an indispensable tool for both exam preparation and professional advancement in Intensive Care Medicine.

CRC Press
August 2024:238
Pb: 978-1-032-74327-1: £34.99
Hb: 978-1-032-74329-5: £99.99
* For full contents and more information, visit: www.routledge.com/9781032743271
Environmentally Sustainable Primary Care
Good for the planet, good for practices, good for patients

Edited by Matt Sawyer, Mike Tomson

This practical guide, for primary care, provides a context-specific introduction to the sustainability challenges associated with good healthcare delivery and provides easy-to-implement yet impactful actions that can be taken to reduce and mitigate the impact of primary care on the living world whilst also looking at the impact of the changing planet on healthcare that people will encounter.

Planning & Designing Health Care Facilities in Developing Countries

Shashikant Sharma Armed Forces Medical College, Pune, India, Saurabh Singh Department of Hospital Administration, NEIGRHMS, Shillong, India

This book aims to provide both theoretical and practical inputs for Planning and Designing of Health Care Facilities in developing countries. It clearly indicates the steps to be followed, facts to be weighed and components to be considered to arrive to a correct planning solution.
A solid grounding in and understanding of haematology is crucial for any doctor. The pathophysiology is fascinating, and the pharmacology is rapidly advancing, improving prognosis across many haematological conditions. Getting to grips with its fundamentals will stand any medical student in good stead during undergraduate studies and on into clinical practice. This book utilises single best answer-style questions in the popular MasterPass series of revision aids, covering the haematology presentations and conditions listed in the Medical Licensing Assessment content map.
Body Recomposition
A Comprehensive and Metabolic Alternative to Weight Loss
Edited by Sanjoy Chakraborty, Debasis Bagchi, Tandra Chakraborty, Bernard Downs, Kenneth Blum

Obesity has become a global pandemic rising beyond the status of a lifestyle disorder, and its consequences include impaired metabolism, energy disruption, and abdominal fat deposition and storage. Body Recomposition: A Comprehensive and Metabolic Alternative to Weight Loss presents information on a unique approach to weight loss through body recomposition, which emphasizes the approach of losing fat whilst gaining muscle.

Clark’s Essential Guide to Mobile and Theatre Imaging
Amanda Martin, Ken Holmes, Andrea Hulme, Helen Fowler

Series: Clark’s Companion Essential Guides

This easy-to-understand pocketbook in the highly respected Clark’s stable of diagnostic imaging texts introduces the practical guidance to undertaking a wide range of mobile and theatre imaging examinations in multiple locations. Clark’s Essential Guide to Mobile and Theatre Imaging takes the systematic approach adopted within books in the Clark’s family and designed to be clear and consistent, in which each imaging location is explored, the challenges of each identified and possible solutions presented.

Comorbid Conditions in the Treatment of Headache
Edited by Leon S Moskate, Robert P Cowan

A practical reference and educational tool that teaches headache specialists and neurologists about the comorbid illnesses they will encounter in their patients. Headache Medicine is recognized as a dedicated specialty with an emerging cohort of physicians treating the condition. Headache patients often have other comorbid conditions, which affect treatment decisions and outcomes in innumerable ways. This easy-to-use reference a holistic understanding of the patient with a headache. In addition to headache specialists, it will benefit a wide range of health care providers, including primary care physicians, subspecialists, gynecologists.

Complaints, Litigation and Clinical Errors
A Practical Guide for Health Care Students and Professionals
Amar Alwity, Janine Collier

This concise book provides readers with practical guidance to help them to both avoid errors and develop robust processes to protect themselves and their patients, as well as dealing appropriately with complaints and litigation, when things do go wrong. Free of complex legal terminology, the book outlines key concepts in medical law and how these may be applied to clinical situations in both hospital and community settings.

Ernsting’s Aviation and Space Medicine
Edited by David Gradwell, Elizabeth Wilkinson

Ernsting’s Aviation and Space Medicine applies current understanding in medicine, physiology and the behavioural sciences to the medical challenges and stresses that are faced by both civil and military aircrew, and their passengers, on a daily basis. The structure of the book has been refined, bringing related chapters together where appropriate, while the clinical content has been carefully streamlined in line with the specific requirements of the aviation medicine practitioner and adviser, with new chapters added on Commercial Space Travel, Skin Disease and Women’s Health.
Handbook of Physician Mental Health

Clare Gerada Royal College of General Practitioners, UK

This definitive textbook on practitioner health mixes academic rigour with practitioner and patient experiences. It is a unique book covering care relevant to any regulated health professional, focusing on the care of doctors and nurses with mental illness. The book builds on themes introduced in the award-winning publication Beneath the White Coat: Doctors Their Minds and Mental Health from the same author. It provides an invaluable how to manage companionship to supplement and enhance the broader issues relating to doctors and mental illness addressed in that first book.

Interdisciplinary Rheumatology

Rheumatology and Cardiology

Edited by Vaneet Sandhu

Series: Interdisciplinary Rheumatology

This book represents a dialogue between specialties, helping clinicians understand the implications of disease both within their own specialty and in the overlapping specialty of the case. Here leading experts from the fields of rheumatology and cardiology provide a masterclass in the care of patients with systemic illnesses that involve the immune system and the cardiovascular system.

Human Factors and Patient Safety

A primer for doctors and medical students

Ibrahim Imam Royal Devon and Exeter, UK

This book fulfils the need of doctors, medical students and all healthcare personnel for information that addresses fundamental patient safety concepts that are not usually covered in conventional medical curricula. The content encompasses the main areas of human factors and patient safety in short and easily accessible language supplemented by anecdotes from safety-critical industries such as aviation and nuclear power. Each chapter highlights the problems of human error and provides solutions that help to reduce the risks to patients. The coverage highlights the important role the public should play in protecting their own safety when in contact with healthcare systems.

Interdisciplinary Rheumatology

Rheumatology and Gastroenterology

Edited by Reem Jan , Sushila Dalal

Series: Interdisciplinary Rheumatology

Interdisciplinary Rheumatology: Rheumatology and Gastroenterology is the first complete textbook that examines the myriad complications of rheumatic syndromes in the gastrointestinal tract. Each disease is summarized for a broad medical audience, with focus on the consequences of the disorder throughout the gut. The reader will formulate an understanding of the clinical, pharmacological and nutritional aspects of the interface of these two specialties with expert contributors from a range of academic centers.

Lifestyle Medicine, Fourth Edition

Edited by James M. Rippe Rippe Lifestyle Institute, Shrewsbury, Massachusetts, USA

The fourth edition of Dr. James Rippe’s classic Lifestyle Medicine textbook continues to lead and inform the rapidly growing field of lifestyle medicine. This is the discipline which focuses on the impact of daily habits and actions on both short and long-term health and quality of life.

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Masterclass in Medicine
Lessons from the Experts
Edited by Marcy B. Bolster, Jason Liebowitz
Skylands Medical Group, Rockaway, USA, Philip Seo
Johns Hopkins University School of Medicine, Baltimore, USA

Nearly every medical school around the world teaches a
class about a case-clinical approach, and how to start
process of becoming a skilled and caring physician.
However, there has never been a book on it — until now. This
premise, text with patient-identified and is referred to
physicians globally, to discuss important topics related to
clinical excellence, including humility, empathy, and
ingenuity in medicine. Healthcare professionals will gain
tremendous knowledge by hearing the stories of what these
master clinicians have learned from their patients and
colleagues, thereby giving a foundation in how to achieve
greatness as a clinician.

CRC Press
October 2022:264
Pb: 978-1-138-36833-0: £24.99
Hb: 978-1-032-52951-6: £99.99
* For full contents and more information, visit: www.routledge.com/9781032529516

Muscle Diseases
A Guide to Differential Diagnosis, Investigation and Management
Edited by Andria Morrison, Stefen Brady

A how-to-guide on the clinical assessment and investigation of
patients presenting with muscle-related symptoms.
Featuring a case-based approach, this accessible text is
suitable for a wide range of clinical specialists who see
patients presenting with both common and rare muscle
diseases. Patients with muscle diseases may be referred to
one of several medical or surgical specialties including
neurology, rheumatology, neurophysiology, radiology, respiratory medicine, intensive
care medicine, gastroenterology, ophthalmology, ortopaedic and spinal surgery, before the correct diagnosis is considered. This accessible text is an ideal resource for
clinicians.

CRC Press
November 2024:338
Pb: 978-1-032-58878-0: £24.99
* For full contents and more information, visit: www.routledge.com/9781032588780

Nanotechnology Based Advanced Medical Textiles and Biotextiles for Healthcare
Edited by Prashansa Sharma, Banasa Hindu University, UP, India, Devsuni Singh, Banasthali Vidhyapith, Rajasthan, India, Suman Pant, Banasthali Vidhyapith, Rajasthan, India, Vivek Dave, CUSB, Bihal, India

This book provides a systematic coverage of research into
medical and biotextiles based on nanomaterials as
applicable in healthcare. Divided into three sections, it
explains manufacturing, properties, types, and recent
developments in nanotechnology based medical textiles
backed by case studies. It includes wide range of different
clinical applications of biotextiles for healthcare including
nanotextile scaffolds, nano-based artificial organs, surgical
surfaces, enzymatic assisted enhanced biotextiles, tissue
engineering or drug delivery system via nanofibers and so forth. This book aims at researchers and graduate students in
textile technology and engineering, and medical textiles.

CRC Press
May 2024:338
Pb: 978-1-138-36833-0: £155
Hb: 978-1-138-36375-2: £89.99
* For full contents and more information, visit: www.routledge.com/9781032363752

Pass the MRCP (SCE) Neurology Revision Guide
Dhananjay Gupta
Series: Master Pass Series

This up-to-date revision guide for the MRCP (Specialty Certificate Examination) in Neurology covers the core areas
that are essential to exam success. The chapters reflect the exam syllabus to be able to retain and recall core concepts. The chapter format and style provide a
structured and focused approach to a study of essential neurology topics ensuring a comprehensive
understanding of the subject matter. Whether you are a resident or trainee preparing for your first SCE examination or a seasoned
neurologist seeking to enhance your knowledge and skills, this book will provide you with the necessary tools for
success.

CRC Press
October 2024:168
Pb: 978-1-032-43373-5: £69.99
* For full contents and more information, visit: www.routledge.com/9781032433738

3RD EDITION
Practical Ultrasound
An Illustrated Guide
Jane Alty, Edward Hoey, Michael Weston

In the hands of a skilled operator, ultrasound scanning is a
simple and easy procedure. However, reaching that level of
proficiency can be a long and tedious process. Commended
by the British Medical Association, Practical Ultrasound, Third Edition incorporates up-to-date techniques and protocols, focusing on the scans regularly encountered in a busy
ultrasound department. This book provides everything
novice practitioners need to know to become competent and
skilled in scanning. The authors’ precise approach puts
an immense amount of knowledge within easy reach, making it an ideal aid for learning the practicalities of ultrasound.

CRC Press
November 2024:200
Pb: 978-1-032-46434-3: £99.99
Hb: 978-1-032-46431-2: £175
* For full contents and more information, visit: www.routledge.com/9781032464343

Radiology of the Abdomen and Pelvis
A Case-Based Guide
Swati Goyal, Gandhi Medical College, Bhopal, India

A succinct account of various routinely experienced
pathologies and suitable images has been enlisted
as 162 case studies. The cases are structured into thematic
chapters with an integrated approach to basic learning. Each
case study follows a similar format with a brief clinical
presentation, relevant imaging findings, discussion with
differential diagnosis, management, and suggested
readings. The book focuses on the pointwise description of
cases routinely encountered in abdominopelvic imaging
that help students, trainees and radiologists to write
certificate examinations.

CRC Press
September 2024:208
Pb: 978-1-032-58874-5: £69.99
Hb: 978-1-032-58878-0: £175
* For full contents and more information, visit: www.routledge.com/9781032588745
Viruses, bacteria, fungi and parasites are known to cause the most common human disease. It frequently spreads through direct contact (from human to human, animal to human), and through contaminated food or water. With the advancement of diagnostic techniques, it is now possible to rapidly identify microorganisms causing human disease and correlate with the corresponding clinical infection. Therefore, there is a need to develop robust and high-throughput diagnostic methods to prevent and control human disease of public health importance.

**Recent Advancements in the Diagnosis of Human Disease**

Edited by Irshad M. Sulaiman U.S. Food and Drug Administration, USA

CRC Press
June 2024:302
Hb: 978-1-032-57260-4: £130
ebook: 978-1-035-43859-5

* For full contents and more information, visit: [www.routledge.com/9781032572604](http://www.routledge.com/9781032572604)

**Severe Pulmonary Emphysema:**

A Comprehensive Guide to Precision Interventional Procedures

Edited by Luis Carlos Losso, Gerard J. Criner, Pallav L. Shah MD, MBBBS, FRCP, Consultant Physician, Royal Brompton Hospital and Chelsea and Westminster Hospital, London, UK, Walter Weder, José R Jardim

CRC Press
October 2024:192
Pb: 978-1-032-17023-7: £49.99
Hb: 978-1-032-17024-4: £125

* For full contents and more information, visit: [www.routledge.com/9781032170237](http://www.routledge.com/9781032170237)

**Thinking About Medicine**

An Introduction to the Philosophy of Healthcare

David Messelbrook

This introduction to the philosophy of medicine surveys the landscape of western philosophy as it pertains to healthcare in an accessible way. Written by a doctor for doctors and other health professionals, framing the ‘toolbox’ of philosophy within the community of medicine, it encourages examination of the implicit assumptions made in the construction of medical knowledge and practice. The book is an ideal textbook for students of medicine and medical philosophy and will also be of interest to bioethicists, medical sociologists to improve their understanding of philosophy and ethics and sharpen their critical thinking skills.

CRC Press
May 2024:336
Pb: 978-1-032-41673-1: £34.99
Hb: 978-1-032-42231-2: £145
ebook: 978-1-003-36183-1

* For full contents and more information, visit: [www.routledge.com/9781032416731](http://www.routledge.com/9781032416731)

**The Impact of Artificial Intelligence in Radiology**

Edited by Adam E. M. Eltorai, H. Henry Guo

Series: AI in Clinical Practice

Implementation of artificial intelligence (AI) in Radiology is an important topic of discussion. Advances in AI—which encompass machine learning, artificial neural networks, and deep learning—are increasingly being applied to diagnostic imaging. While some post radiologists are irreplaceable, certain AI proponents have proposed to “stop training radiologists now.” By compiling perspectives from experts from various backgrounds, this book explores the current state of AI efforts in Radiology along with the clinical, financial, technological, and societal perspectives on the role and expected impact of AI in Radiology.

CRC Press
October 2024:200
Hb: 978-0-367-34089-6: £99
ebook: 978-0-367-34088-9

* For full contents and more information, visit: [www.routledge.com/9780367340889](http://www.routledge.com/9780367340889)

**Thinking About Thinking**

A Prescription for Healthcare Improvement

Yang Chen, Myura Nagendran

This book is about the practice of medicine and the decision-making of the people we entrust with our care. Through personal experience, research and feedback from colleagues across healthcare, the authors examine how metacognition – or thinking about thinking – can provide a toolkit with which to improve the decision-making of all healthcare professionals. The rise of digital tools and AI-based clinical support systems makes this a critical time to grasp how human decision-makers operate and how to best harness the increasing volume of healthcare data available.

CRC Press
July 2024:256
Hb: 978-0-367-34089-6: £99
ebook: 978-0-367-34088-9

* For full contents and more information, visit: [www.routledge.com/9780367340889](http://www.routledge.com/9780367340889)
100 Cases in Obstetrics and Gynaecology

Cecilia Bottomley

Series: 100 Cases

100 Cases in Obstetrics and Gynaecology presents 100 obstetric- or gynaecology-related scenarios commonly seen by medical students and junior doctors in the emergency department, outpatient clinic, or on the ward. A succinct summary of the patient’s history, examination, and initial investigations—including photographs where relevant—is followed by questions on the diagnosis and management of each case. The answer includes a detailed discussion on each topic, with further illustration where appropriate, providing an essential revision aid as well as a practical guide for students and junior doctors.

Embryology Explained
A Comprehensive Textbook for Medical Students & Junior Doctors

Fawz Kazzazi, Diana Kazzazi, Danny Kazzazi

An essential guide to embryology for medical students and junior doctors, enriched with original illustrations help readers to that navigate the complexities of embryonic development. This refreshingly simple text highlights the practical clinical applications of embryology, making it more pertinent and accessible to a wide medical audience. Each chapter is organized into four main sections—embryology, clinical relevance, molecular details, and key points—allowing learners to efficiently review and connect the material with their specific academic and exam requirements. It is an easy-to-read and comprehensive textbook that will explain embryology for you!

Ultrasound of Congenital Fetal Anomalies
Differential Diagnosis and Prognostic Indicators

Dario Paladini
Gaslini Children’s Hospital, Genoa, Italy, Paolo Volpe

An acclaimed overview of ultrasound for the prenatal diagnosis of congenital anomalies returns in a new enlarged edition. In particular, the coverage of both Central Nervous System congenital and acquired anomalies as well as Congenital Heart Disease has been expanded enormously, to make this an impressive comprehensive resource for Fetal Neurology and Fetal Cardiology. Together with additional new chapters on guidelines and protocols, equipment, and disorders of sexual differentiation, and new insight into fetal surgery procedures, this third edition almost becomes three books in one.
Precision Pathology of Cancer
From Basic Concept to Clinical Practice

Edited by Xianfeng F. Zhao University of Tennessee Health Science Center College of Medicine, USA, Shiyong Li Emory University School of Medicine, Atlanta, USA

This text covers both basic concepts (the role of the precision pathologist, ethical issues, molecular basis, tools used in precision pathology, and specimen procurement) and clinical practice (the precise genes/pathways, ongoing clinical trials, therapeutics, pharmacogenomics, pharmacoproteomics, and pharmacometabolomics) in precision pathology of cancer.

CRC Press October 2024:192
Hb: 978-1-032-84486-2: £150
* For full contents and more information, visit: www.routledge.com/9781032844862

The Prognosis of Metastatic Gastrointestinal Cancer

Giuseppe A. Colloca Oncologia Medica & Innovation, Imperia, Italy, Antonella Venturino Oncologia Medica & Innovation, Imperia, Italy

The purpose of this book is to systematize the evidence regarding the prognostic factors of metastatic gastrointestinal tumors, separating the findings with the highest level of evidence among those available for each disease by selecting studies with the highest scientific evidence level.

CRC Press August 2024:254
Pb: 978-1-032-69971-4: £74.99
Hb: 978-1-032-70334-3: £150
* For full contents and more information, visit: www.routledge.com/9781032699714
Introduction to Vision Training

Nadia Jankielsohn

This book addresses the limited information about vision training and the importance of having knowledge of superior visual skills in our everyday, individualised environment like the classroom, workspace, and sports setting. It explains the tests that an eye care professional can do to determine the level of a patient/athlete’s visual skills to regulate where improvement needs to be done. Written in a concise manner and supplemented with insightful visual materials, the book will allow the reader to formulate an individualised program according to the needs of the patient/athlete.

Keratoconus

Optical and Surgical Management

Edited by Mehrdad Mohammadpour, Masoud Khorrami-Nejad

This is an updated and comprehensive treatise on optical, medical and surgical management of keratoconus with an exclusive panoramic view of all existing modalities for confronting serious disabling morbidity affecting people in their youth. Early diagnosis and proper treatment can salvage vision and help patients to get back to their routines and enhance their quality of life. The contents include optical and glass prescription, and contact lens fitting, cXL alone and combined surgeries, phakic IOLs, and corneal transplantation. The illustrated and organized 360 degrees approach makes this a must-have manual for ophthalmology trainees, fellows, and professionals.

Postgraduate Ophthalmology Exam Success

Maneck Nicholson, Anjali Nicholson, Syed Faraaz Hussain

Series: MasterPass

This book provides a core revision resource for candidates preparing for ophthalmology exams in a direct and logical format. Covering not just Ophthalmology instruments, drugs, emergencies, charts, etc. in detail, but also the related questions that such viva exams may ultimately lead to, like the community, legal and ethical aspects. Ophthalmic specialist trainees, residents, and speciality doctors will find this book to be an essential guide to revising for oral and clinical-based exams in Ophthalmology.
3RD EDITION

Browning's Audiology for Clinicians

George Browning, Emma Stapleton, Haytham Kubba

This book is a practical guide to interpreting audiometric tests, alongside the clinical assessment, to make sound evidence-based decisions in the clinical management of adults and children with ear conditions. This third edition of a popular and classic text is an essential revision aid for ENT trainees preparing for specialist examinations including the FRCS (ORL-HNS). Fully updated and well-illustrated, it provides up-to-date content on the management of a wide range of ear conditions and will be of interest to the whole multi-disciplinary team including audiologists, audiological scientists, audiological physicians, private hearing aid providers and speech and language therapists.

CRC Press
November 2024:200
Pb: 978-1-032-55412-9: £69.99
Hb: 978-1-032-56758-7: £99.99
* For full contents and more information, visit: www.routledge.com/9781032554129

2ND EDITION

Dizziness and Vertigo
An Introduction and Practical Guide

Edited by Rahul G. Kanegaonkar Medway Maritime Hospital, Kent, UK James R. Tysome Cambridge University Hospitals, UK

Dizziness and Vertigo provides practitioners with a comprehensive overview of dizziness and vertigo, steps for diagnosing patients, and various treatment options. This new edition provides a framework for the accurate diagnosis and management of patients with dizziness and vertigo, covering clinical assessments and case studies. It includes new methods for treating Meniere’s Disease, Benign Paroxysmal Positional Vertigo (BPPV) and in the field of Vestibular Rehabilitation. Dizziness and Vertigo is an essential reference for all those who manage patients in the outpatient setting, including general practice trainees, ENT specialists and physiotherapists.

CRC Press
June 2024:186
Pb: 978-1-032-38824-3: £42.99
Hb: 978-1-032-56758-7: £110
ebook: 978-1-003-34696-8: £65.99
* For full contents and more information, visit: www.routledge.com/9781032383514

7TH EDITION

Hearing
An Introduction to Psychological and Physiological Acoustics

Stanley A. Gelfand Queens College of CUNY, Flushing, New York, USA

This fully revised and updated seventh edition provides a thorough overview and induction to hearing science. Covering topics such as conductive and cochlear mechanisms, auditory pathways, and binaural and spatial hearing and including some new and updated diagrams and figures, this book serves as a great resource for both graduate students and professionals working in audiology and other fields like psychology, neuroscience, otolaryngology and linguistics. This improved edition reflects the ever-changing field of hearing science.

CRC Press
November 2024:380
Pb: 978-1-032-64522-3: £115
Hb: 978-1-032-64522-3: £230
* For full contents and more information, visit: www.routledge.com/9781032645223

12TH EDITION

Logan Turner's Diseases of the Nose, Throat and Ear
Head and Neck Surgery, 12th Edition

Edited by S Musheer Hussain, Quentin Gardiner

This classic ENT textbook has been updated and expanded to reflect the increasing sophistication of diagnostic and management skills. New material includes a chapter on Middle Ear Devices and Information on recent technical advances, including brand new implant devices. Each chapter includes key learning points, up-to-date references, and suggestions for further reading. Many chapters benefit from updated figures which provide clarity and enhance the effectiveness of the text. ENT trainees and other practitioners with an interest in otolaryngology will find this all-purpose textbook ideal for a thorough understanding of the specialty.

CRC Press
September 2024:120
Hb: 978-1-138-36643-5: £175
* For full contents and more information, visit: www.routledge.com/9781138366206

6TH EDITION

Stell & Maran's Head and Neck Surgery and Oncology

Edited by Vinidh Paleri, Terry M. Jones, Prathamesh Pal

The knowledge base required of the modern day head neck surgeon, as a key member of a comprehensive and wide-ranging multi-disciplinary team, is significant. The sixth edition of Stell & Maran’s Head and Neck Surgery and Oncology continues to be the leading reference book in the specialty. With contributions from the full spectrum of the multidisciplinary team, this book will also be a major up-to-date resource for both trainees and established practitioners in otolaryngology, maxillofacial surgery, plastic surgery, endocrine surgery, clinical oncology, oncology nursing and those professions allied to medicine, such as speech and language therapy, and dietetics.

CRC Press
September 2024:200
Pb: 978-1-032-84049-9: £175
Hb: 978-1-032-84049-9: £250
* For full contents and more information, visit: www.routledge.com/9781032840499
Communication in Palliative Care
Clear Practical Advice, Based on a Series of Real Case Studies

Janet Dunphy Retired Clinical Nurse Specialist & teacher in Palliative Care, UK

This practical, thought-provoking guide provides the unemotional, clear, and accurate advice necessary for communicating with patients in a palliative care setting - a pivotal aspect of being a palliative care expert that is so difficult to quantify and teach. It uses genuine anecdotes and case-studies to bring theory to life and assist in everyday application.

Talking Points on Deprescribing in Hospice Care

Deepak Shrivastava UC Davis School of Medicine, Sacramento, California, USA

Deprescribing practice in hospice medicine has expanded exponentially in recent years. This book systematically addresses the groups of extremely useful medications to manage chronic disease conditions and prevent complications. It highlights the positive intervention of reducing polypharmacy, improving a terminally ill patient's quality of life, providing individual patient context and helping clinicians in deprescribing. It discusses good ethics, patient wishes and side effect protocols to discontinue no longer relevant medications, thus improving decision-making with the goal of enhancing the patient’s quality of life during the time when it is needed the most.
Cadaver Dissection with Clinical Applications

Seth Gardner Lake Erie College of Osteopathic Medicine, USA

Cadaver Dissection with Clinical Applications is written for students in a professional program that have been given the privilege of dissecting their own cadaver. It discusses dissection techniques, what structures to look for in a particular region and various pitfalls to avoid in the process.

Greenfield’s Neuropathology 10e Set

Edited by Colin Smith Centre for Clinical Brain Sciences, Scotland, Arie Perry, Gabor Kovacs University of Toronto, Canada, Thomas Jacques UCL GOS Institute of Child Health, UK; Great Ormond Street Hospital for Children NHS Foundation Trust, UK

Greenfield’s is the world’s leading neuropathology reference. The two volume work provides a comprehensive account of the pathological findings in neurological disease, their biological basis, and their clinical manifestations. The key reference for scientists, clinicians, researchers, and students who wish to learn about neurological disease. The tenth edition features fully updated sections covering CNS tumours, neurodegeneration, skeletal muscle, epilepsy, paediatric and forensic neuropathology. Expert coverage from an international team of Editors and contributors ensures authoritative and up to date content. The two volume set includes a downloadable and easily used e-version.

* For full contents and more information, visit www.routledge.com/9780367895082
2ND EDITION

Fetal and Perinatal Skeletal Dysplasias
An Atlas of Multimodality Imaging

Christine M Hall, Amaka C Offiah, Francesca Forzano, Mario Lituania, Gen Nishimura, Valerie Cormier-Daire

This atlas is intended to give all relevant clinicians a thorough insight into conditions (and variants) of skeletal dysplasias. Clinical and imaging findings are properly illustrated, enriched by updated genetic information. This acclaimed text returns in a revised form, with updated material particularly on the new knowledge surrounding the genetic basis and mechanism for the various skeletal dysplasias. No clinician dealing with fetal or neonatal skeletal diagnosis or treatment will want to be without access to the wealth of illustrations and detail condensed here.

CRC Press
July 2024:700
Hb: 978-0-367-76443-2: £170
eBook: 978-1-003-16694-8
* For full contents and more information, visit: www.routledge.com/9780367764432

3RD EDITION

Great Ormond Street Handbook of Paediatrics
An Illustrated Guide

Edited by Stephen D. Marks, Simon Blackburn, Stephan Strobel

Series: Great Ormond Street Handbook Series

The product of a world centre of excellence in teaching and medical and surgical practice, this new edition of a bestseller has been revised throughout for easier quick reference. Building on the range of expertise showcased in the previous editions, this text incorporates updated material and new figures to helpfully illustrate clinical features and epidemiology. This compact volume offers expert knowledge useful for trainees and professional clinicians in other disciplines.

CRC Press
December 2024:640
Pb: 978-1-032-00687-1: £79.99
Hb: 978-1-032-00691-8: £145
* For full contents and more information, visit: www.routledge.com/9781032006871

3RD EDITION

Restorative Techniques in Paediatric Dentistry
An Illustrated Guide to Conventional and Contemporary Approaches

Edited by M S Duggal, H Nazzal, A J Robertson

One of the first books on the market to illustrate the various clinical techniques for restoration, this revised and updated new edition offers new material on treatment planning, local analgesia, biomaterials, biological and contemporary approaches, and aesthetic crowns. The book addresses the specific needs of the paediatric patient and helps the clinician manage the restoration with those needs in mind. As a classic volume, it is essential for every dentist working with children and adolescent patients.

CRC Press
May 2024:163
Hb: 978-1-032-13230-3: £150
eBook: 978-1-003-27364-6
* For full contents and more information, visit: www.routledge.com/9781032132303
Leading Primary Care
Tales from the Leadership Hikers

Edited by Amar Rughani Former General Practitioner and Associate Postgraduate Dean, Yorkshire and the Humber, UK, Joanna Bircher General Practitioner, Clinical Director Greater Manchester GP Excellence Programme, Manchester, UK

This new book of leadership narratives fleshes out the reality of working to achieve change in primary care and will be relevant to a wide primary care audience, empowering both clinicians and non-clinicians to recognize and use their leadership qualities. The book draws together stories from a wide range of primary care practitioners who work at different levels from junior to senior, and both in practice and at scale, to show how they used their leadership in primary care, the difficulties they faced and the lessons they learned.

CRC Press
May 2024:196
Pb: 978-1-032-21899-1: £26.99
Hb: 978-1-032-21901-1: £99.99
eBook: 978-1-032-61652-0
* For full contents and more information, visit: www.routledge.com/9781032577200

Learning from Clinical Cases in Primary Care
For MRCGP and Beyond

Samar Razaq

This new book is designed around twenty clinical cases, each representative of scenarios encountered by doctors who work in primary care and which will prompt learning in related issues surrounding each clinical scenario. Each case description concludes with an initial exam style question which MRCGP candidates will recognise as being directed towards learning for the Applied Knowledge Test (AKT). An expanded answer to that initial question is followed by a detailed explanation, concluding with further questions for self-assessment and reflection.

CRC Press
October 2024:180
Pb: 978-1-032-52772-0: £34.99
Hb: 978-1-032-71359-5: £145
* For full contents and more information, visit: www.routledge.com/9781032577200

The Minor Illness Manual

6TH EDITION

Gina Johnson National Minor Illness Centre, Luton, UK
Ian Hill-Smith National Minor Illness Centre, Luton, UK
Chirag Bakhai National Minor Illness Centre, Luton, UK
Bhavina Khatani

This sixth edition of the best-selling Minor Illness Manual has been completely revised and updated to include the latest clinical guidance and prescribing information, with a reworked introductory chapter reflecting the changing demands of primary care and a new chapter added on pandemics.

CRC Press
May 2024:256
Pb: 978-1-032-54694-0: £14.99
eBook: 978-1-032-61652-0
* For full contents and more information, visit: www.routledge.com/9781032546940

The Role of Vitamins in Combating Infectious Viral Diseases

Edited by Aditya Arya National Institute of Malaria Research (NIMR), ICMR Lab Dwarka, Delhi, India, Rakesh Kaushik

This book highlights the role of vitamins in preventing or reducing the pathogenesis or treatment of infectious viral diseases based on current ongoing research and past work. Using clinical evidence and trials that suggest the potential benefits of vitamin supplementation as prophylactic and therapeutic in infectious viral diseases, each individual vitamin is described in this context in separate chapters. It will be a valuable reference aid to researchers, clinicians, and medical bodies to develop improved therapeutic regimens.

CRC Press
November 2024:168
Pb: 978-1-032-56327-5: £44.99
Hb: 978-1-032-56471-5: £110
* For full contents and more information, visit: www.routledge.com/9781032563275

What do I say next? Everyday Mental Health Conversations in Primary Care
A Practical Guide

Sophie Jadwiga Ball, Liz Moulton

A significant problem experienced by some GPs and many trainees is the challenge of completing a useful and safe consultation with patients with mental health problems within the constraints of a standard-length appointment. These challenges may arise from a lack of specific expertise in this area, poor training in the relevant skills and, perhaps, the attitude that there is not much that the primary care practitioner can do to help. This new book focuses on enhancing the repertoire of communication skills available for mental health consultation. Essential reading for all primary care practitioners in training and in practice.

CRC Press
July 2024:266
Pb: 978-1-032-53131-8: £26.99
eBook: 978-1-032-53131-8
* For full contents and more information, visit: www.routledge.com/9781032531318
Intelligent Drug Prescribing in Psychiatry
Supporting the Patient-Prescriber Partnership

Peter Tyrer

This new book describes how to bring patient and prescriber together in an active partnership for better understanding of the positive and negative elements of drug prescription, drawing on the author’s distinguished career in front-line psychiatric practice. At present there is a gap between doctor and patient expectations, but balanced decision-making with joint involvement is needed to separate the drugs that are needed regularly to maintain health, those that are only needed when required, and those that are mere fashion accessories. The consequence of a better partnership will be less over-prescribing, a reduction of polypharmacy, and a lessened need for deprescribing.

CRC Press
September 2024: 200
Pb: 978-1-032-60980-5: £22.99
* For full contents and more information, visit www.routledge.com/9781032609805
50 Landmark Papers every Colorectal Surgeon Should Know

Edited by John R.T. Monson, Lawrence Lee, Fergal J. Fleming
Series: 50 Landmark Papers

This book identifies the 50 key scientific articles in the field of Colorectal Surgery and through expert reflections and editorial perspectives explains why these papers are important. Influential contributors who have shaped the practice of modern Colorectal Surgery comment on the Landmark Papers that have defined the specialty. This an invaluable reference for trainees, fellows, and surgeons studying for exams, as well as for seasoned surgeons who want to stay current in their field.

A Test of Morals
Surgical, Ethical, and Psychosocial Considerations in Human Head Transplantation

L. Allen Furr, Auburn University, USA

While transplanting human heads is not a new concept, the idea has largely been relegated to religious lore or as a plot device in science fiction. But now, a surgical plan to perform the complex procedure exists, and though most physicians question head transplantation’s medical veracity, bioethicists have challenged the surgery on moral grounds. A Test of Morals compiles and examines the ethical questions that dog those who advocate for conducting this most radical of medical proposals in order to determine if society should move forward and allow head transplantation to occur.

Bailey & Love’s Essential Operations in Hepatobiliary and Pancreatic Surgery

Edited by Ashley Dennison, Leicester General Hospital, Leicester, Gough Maddern University of Adelaide, The Queen Elizabeth Hospital, Adelaide, Australia, Jia Fan, Zhongshan Hospital, Fudan University, China
Series: Bailey & Love’s Essential Operations

Bailey & Love’s Essential Operations in Hepatobiliary and Pancreatic Surgery provides step by step explanations of both the core operations and more complex procedures. Written by acknowledged experts and trainees from around the world, and with abundant diagrams and figures to explain the operative steps, this new resource will enable hepatobiliary and pancreatic surgeons to increase their skills in this demanding and technically challenging field. Over 70 easy to read chapters provide surgeons with the information they need, and in the process help to increase their clinical judgement, their experience, and their technical skills.

Cloecal Malformations: Case Studies

Edited by Marc Levitt, Chief of Colorectal and Pelvic Reconstruction Surgery, Children’s National Medical Center, Washington DC, USA
Series: Pediatric Colorectal Surgery

A comprehensive account of all elements of care for the cloaca patient, from pre-operative evaluation to the long-term management of patients with cloacal malformations. Case studies provide valuable insights into a range of clinical scenarios, never previously categorized in this way. Fully illustrated in color, and with further resources available online, this is a unique resource for all clinicians within the pediatric team caring for patients with cloacal malformations. Specialists across numerous fields will find this practical clinical text to be an invaluable resource when dealing with the complex needs of the cloaca patient.

Contemporary Management of Acute and Chronic Venous Disease

Edited by Juan Carlos Jimenez, Samuel Eric Wilson

A unique revision guide aimed at candidates preparing for the MRCS examinations. The Part A exam is designed to test knowledge of both basic science and the principles of surgery in general. There is a focus on the most common questions asked pertaining to anatomy (representing 42% of the MRCS Part A paper). The content has been designed specifically to help junior doctors memorise essential surgical facts. This will be particularly useful in the pressured run up to the MRCS examination and it provides a convenient aide-memoire that will save hours of note taking.

Cracking the MRCS Part A
A Revision Guide

Olivia A M Smith, Hull York Medical School, UK

A unique revision guide aimed at candidates preparing for the MRCS examinations. The Part A exam is designed to test knowledge of both basic science and the principles of surgery in general. There is a focus on the most common questions asked pertaining to anatomy (representing 42% of the MRCS Part A paper). The content has been designed specifically to help junior doctors memorise essential surgical facts. This will be particularly useful in the pressured run up to the MRCS examination and it provides a convenient aide-memoire that will save hours of note taking.
Esophageal Cancer Surgery
Akiyama Procedure

Henri Kolani

A specialist clinical monograph for thoracic and general surgeons who specialise in the treatment of esophageal cancer. Esophageal cancer is a challenging area requiring the treatment by the multidisciplinary team. In this type of surgery, tumors located in the middle and upper 1/3 are challenging, and the author describes how the use of the Akiyama procedure has maximised operative access. The content is suitable for practising surgeons with a range of surgical experience, and the step-by-step approach is fully illustrated with both photographs and access to operative videos. Key points are described, and potential pitfalls explained.

Essential Paediatric Surgery
A Practical Guide

Edited by Paul D Losty, Alder Hey Children’s NHS, UK, Martin T Corbally

A timely practical textbook encompassing the full range of clinical conditions within paediatric surgery. Surgeons-in-training will be delighted to discover that world author experts have generously contributed to this textbook to offer a concise outline of paediatric surgical practice, ensuring that they are wholly familiar with a wide range of clinical scenarios. Key topics are included within sections on neonatal surgical conditions, surgical disorders of infancy, surgical conditions in childhood and adolescence, head and neck, hepatobiliary and pancreatic disorders, preparation of the child for surgery, malignant disorders, urology, neurosurgery, and trauma.

Handbook of Venous and Lymphatic Disorders
Guidelines of the American Venous Forum

Edited by Peter Gloviczki

Written by the world’s foremost venous experts, leaders of the American Venous Forum, and international authorities, the Handbook has become the most important reference for both day-to-day management and investigation of venous and lymphatic disorders. The 5th edition covers the full spectrum of acute and chronic venous disorders, chronic lymphedema and chylous complications. New or entirely revised chapters discuss in detail basic considerations, diagnostic evaluation, management of acute venous thrombosis and chronic venous disorders, including deep venous disease and venous ulcers.

Manual of Definitive Surgical Trauma Care
Incorporating Definitive Anaesthetic Trauma Care

6TH EDITION

Edited by Kenneth D Boffard

Developed for the International Association for Trauma Surgery and Intensive Care (IATSCI), the Manual of Definitive Surgical Trauma Care 6e is ideal for training all surgeons who encounter major surgical trauma on an infrequent basis. Reflecting the experiences of authors whose knowledge and practical expertise is unrivalled, it focuses on integrated simultaneous care with clinicians working as a team around the patient. It includes website access to a selection of videos which provide an anatomical overview of surgical approaches.

Mind Maps in Surgery and Surgical Anatomy for Medical Students

Edited by Sergio Assia-Zamora, King’s College Hospital, U.K.

This new learning and revision aid from the author of the bestselling Mind Maps for Medical Students has been designed specifically to help medical students memorize essential facts in surgical pathology and anatomy, invaluable throughout undergraduate studies and particularly useful in the pressured run-up to final exams. Over 100 maps are published guidelines.

Pediatric Abdominal Organ Transplantation
An Introduction and Practical Guide

Sergio Assia-Zamora

Pediatric abdominal organ transplantation is a complex procedure that requires a multidisciplinary team. This book highlights the surgical point of view of these transplantations, including the kidney, liver, pancreas, and small bowel. It is intended to deepen the knowledge of these type of transplants for medical students, nurses, doctors, anesthetists. This book will serve to expand the understanding the general concepts of pediatric abdominal transplantation, indications, surgical procedure, and complications of each type of graft for all multidisciplinary team members.
**Vascular Surgery: Illustrated Clinical Cases**

*Series: Illustrated Clinical Cases*

James Forsyth

Focusing on Vascular Surgery, this text provides clinical case scenarios with some challenging questions, followed by reasoned answers. The cases are presented randomly, as in real life, and are supported by photographs of the highest quality. Making speedy and appropriate clinical decisions and choosing the best course of action to take as a result, is one of the most important and challenging parts of postgraduate surgical training. These true to life cases will teach trainee vascular surgeons to develop clinical management plans, and to develop their diagnostic and management skills.

CRC Press
November 2024: 168
Pb: 978-1-032-80481-1: £49.99
Hb: 978-1-032-80482-8: £99

* For full contents and more information, visit www.routledge.com/9781032804811
A Professional’s Guide to Feline Behaviour
Understanding, Improving and Resolving Problems

Caroline Clark Clinical Animal Behaviorist
A Professional’s Guide to Feline Behaviour is an invaluable resource for veterinarians, shelter workers, behaviourist and others working with cats, while being accessible to anyone who shares their life with a cat and wants to gain a deeper understanding of their behaviour. It offers a greater understanding of cats and how to meet their needs, explaining how to deal with challenges that cats face and how to analyse feline behaviour accurately, with a view to designing a tailored behaviour modification plan. Real-life case studies, accompanied with behaviour plans that integrate clinically proven methods, help manage or resolve a range of behaviour issues.

CRC Press
September 2024:200
Pb: 978-1-032-17199-6: £36.99
Hb: 978-1-032-17199-6: £99.99
* For full contents and more information, visit: www.routledge.com/9781032171999

Omics Approaches in Veterinary Parasitology
Diagnosis, Biomarkers, and Drug Development

Muhammad Sohail Sajid, Hafiz Muhammad Rizwan
This book explores applications of omics approaches for diagnosis, biomarker discovery, and drug development against parasites of veterinary importance. It presents the fundamental principles of parasite biology and their complex physiological processes. The chapters review key aspects such as parasite life cycles, host-parasite interactions, and the molecular mechanisms that underlie parasitic diseases.

CRC Press
December 2024:322
Hb: 978-1-032-64445-5: £81.99
* For full contents and more information, visit: www.routledge.com/9781032644455

Sheep Veterinary Practice

Kym A. Abbott The University of Adelaide, Australia
This new edition thoroughly revises and expands on the previous text, adding a review of the systems and strategies available to improve the welfare of sheep in extensive farming systems, a chapter on pain relief, analgesia and anaesthesia for sheep, and a chapter on metastatics. The text is illustrated with more than 150 full-colour images and photographs.

CRC Press
August 2024:564
Pb: 978-1-032-38283-8: £120
Hb: 978-1-032-38283-8: £290
* For full contents and more information, visit: www.routledge.com/9781032382838

Small Animal Anesthesia and Pain Management
A Color Handbook

Jeff C. Ko College of Veterinary Medicine, Purdue University, USA
This second edition of Small Animal Anesthesia and Pain Management is a thoroughly updated and much expanded third edition that provides comprehensive coverage of the world of veterinary anaesthesia and pain management. This clinically focused text draws upon practical experience and clinical evidence from various sources. It provides drug dosages and anesthetic protocols in tabular form, complemented by over 400 illustrations that enhance comprehension and visual clarity. These chapters shine a spotlight on a newly approved drug, showcasing the practical application of Zenalph® (medetomidine and xylazine) for a range of sedative and anesthetic combinations in dogs and cats.

CRC Press
November 2024:520
Hb: 978-1-032-40589-6: £120
* For full contents and more information, visit: www.routledge.com/9781032405896

Small Animal Cytologic Diagnosis
Canine and Feline Disease

Anne M. Barger University of Illinois, Urbana, USA
This second edition of Small Animal Cytologic Diagnosis presents clinically applicable information about the use of cytology in small animals and indicates when advanced diagnostic testing can be beneficial to diagnose underlying disease processes. It includes more images, additional cases, and a new user-friendly chapter organization.

CRC Press
September 2024:552
Hb: 978-1-032-19297-0: £125
* For full contents and more information, visit: www.routledge.com/9781032192970

The Equine Distal Limb
An Atlas of Clinical Anatomy and Comparative Imaging

Jean-Marie Denoix
This new edition replaces existing ultrasound images and most of the radiographic and MRI images with new, updated versions and adds new images of extraordinarily high quality; the multiple views of each area of the distal limb providing an extremely detailed evaluation. The diagnosis and management of distal limb lameness require a precise knowledge of the functional anatomy and biomechanics of the equine distal joints, ligaments and tendons which are presented in the last chapter. The book is designed for maximum clarity using a generous page size. The atlas is essential for anybody involved in detailed anatomical study, complex lameness evaluation or advanced imaging techniques.

CRC Press
October 2024:462
Hb: 978-1-032-06071-2: £210
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