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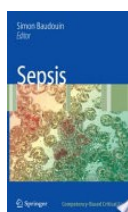


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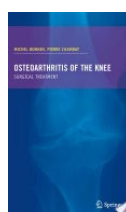
VOLUME III, EDIÇÃO IX

SET. 2020



BAUDOUIN, S. V.
Sepsis. London: Springer, 2008.

Sepsis is a multi-factorial disease process and this volume provides comprehensive and in-depth reviews of both the basic science and more practical aspects of patient management. These include detailed information on the epidemiology and genetics of sepsis as well as the metabolic and cardiovascular responses to infection. Infectious disease, in relation to sepsis, is well covered including chapters on unusual/exotic infections, control of infection and the rational use of antibiotics. Haematological aspects of sepsis are also reviewed in detail. Further chapters focus on the currently controversial areas of clinical trial design in sepsis and protocol-driven care. A specific chapter, with illustrated cases, draws practical lessons and offers useful management "tips". The patient with sepsis provides a major challenge to the hospital acute team and septic shock is the commonest cause of admission to General Critical Care Units in the industrialised world. The incidence of sepsis is also increasing, in part due to the more complex patient case mix which is a feature of modern hospital practice. This volume is useful to both trainees in Critical Care and Anaesthesia as well as Infectious Disease and General Medical trainees. It also provides qualified practitioners in these fields with a comprehensive resource on sepsis-related topics.



BONNIN, M. *Osteoarthritis of the knee*. Paris: Springer, 2008.

This work aims to summarize clearly the current concepts in the surgical treatment of osteoarthritis of the knee, including high tibial or femoral osteotomy, unicompartmental knee arthroplasty and total knee arthroplasty. This book can be read at different levels: basic chapters are particularly dedicated to non-specialized or junior surgeons, rheumatologists, radio logists and physiotherapists. More specialized aspects dealing with difficult cases and controversial topics are dedicated to highly specialized surgeons. Numerous chapters focus on difficult cases in primary TKA, such as TKA on stiff knees, TKA in case of severe deformity or TKA following HTO or failed UKA. Strategy and options in revision TKA are also discussed in the second part of the book. Thanks to its didactic approach, the reader will find quick answers to technical or conceptual difficulties. The use of numerous figures, X-rays and algorithms clarifies the statements and guides the reader throughout this book.



BREHMER-ANDERSSON, E.
Dermatopathology. Berlin, Heidelberg: Springer, 2006.

The book describes the principles of histopathologic patterns in selected acquired skin diseases, together with short clinical descriptions and case reports. The underlying, or possible underlying, mechanisms are elucidated, and controversial concepts are discussed. To facilitate the understanding of underlying mechanisms, the first chapters of the book comprise summaries of basic histology of lymphatics and blood vessels, relevant parts of general pathology, immunology, and molecular cell biology. The histopathological patterns are demonstrated by means of 420 micrographs in shades of gray.

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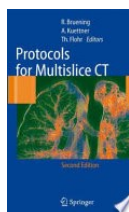


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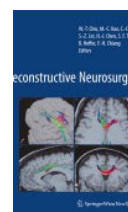
BRUENING, R. *Protocols for multislice CT*. 2nd ed. Berlin, Heidelberg: Springer, 2006.

This book provides structured up-to-date information on all routine protocols used for multislice (multidetector row) CT. The volume contains a detailed technical section and covers the prevailing investigations of the brain, neck, lungs and chest, abdomen with parenchymal organs and gastrointestinal tract, the musculoskeletal system and CTA as well as dedicated protocols for the heart. Separate chapters address the how-to of CT-guided interventions such as punctures, drainages, and therapeutic approaches. Each protocol is displayed en bloc, enabling rapid appreciation of indications and the necessary scanner settings. The second edition includes contributions by renowned experts in the field, who not only provide their clinical experience on each topic, but also give guidelines for indications, workflow, postprocessing and reconstruction algorithms.



CHANG, J. W. *Advances in functional and reparative neurosurgery*. Vienna: Springer, 2006.

Neurorehabilitation together with functional neurosurgery are steadily growing fields, with new advances and technologies including: selective interruption of various neural circuits, stimulation of the cerebral cortex, deep brain structures, spinal cord and peripheral nerves with implantable stimulation systems, and cell transplantation as well as nerve grafting. Recent advances in neuroimaging techniques have also begun to demonstrate the involvement of extensive functional and structural reorganization of neural networks within the brain. In order to encapsulate such concepts, the fourth official scientific meeting of the Neurorehabilitation and Reconstructive Neurosurgery Committee of the World Federation of Neurosurgical Societies (WFNS) was held in Seoul. This volume is the fourth in a new series of proceedings covering the most important advancements in this field.



CHIU, W.-T. *Reconstructive neurosurgery*. Vienna: Springer, 2008.

International experts present in this volume advances in reconstructive neurosurgery focusing on the fields of neurotrauma and neurodegenerative disorders. The highlights include building an international strategy for risk reduction, documenting an multidisciplinary approach towards restoration of function in paraplegic spinal cord-injured patients, describing a new approach for statistical analysis in traumatic brain injury trials, describing blood flow changes in diffuse brain injury, discussing rehabilitation programs in Germany following acute brain injury, describing research data from Taiwan on neurotrauma, showing the neuropsychiatric effects from deep brain stimulation from movement disorders, defining the role played by imaging for deep brain stimulation targeting in mental illness, using radiosurgery in decompression in the treatment of trigeminal neuralgia, describing the development of radiosurgery from brain to the spine, listing new transgenic animal models of Parkinson's disease, discussing gene therapy for neurodegenerative and Parkinson's disease, and finally, discussing constrained-induced movement therapy for stroke patients, and endovascular therapy for cerebrovascular disorders.

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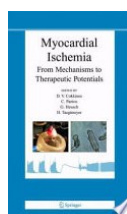


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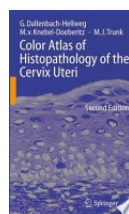
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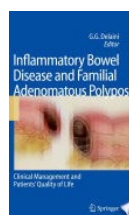
COKKINOS, D. V.
Myocardial ischemia: from mechanisms to therapeutic potentials. New York, NY: Springer, 2006.

Effective new treatments of heart disease are based on a refined understanding of cellular function and the heart's response to environmental stresses. Not surprisingly, therefore, the field of experimental cardiology has experienced a phase of rapid exponential growth during the last decade. The acquisition of new knowledge has been so fast that textbooks of cardiology or textbooks of cardiovascular physiology are often hard-pressed to keep up with the most important conceptual advances. Witness the explosive increase in knowledge about signaling pathways of cardiac growth, transcriptional regulation of cardiac metabolism, hormonal signaling, and the complex responses of the heart to ischemia, reperfusion, or ischemic preconditioning. This book is meant to bridge the gap between original literature and textbook reviews. It brings together investigators of various backgrounds who share their expertise in the biology of myocardial ischemia. Each chapter is a self-contained mini-review, but it will soon become apparent to the reader that there is also a common thread: Molecular and cellular cardiology has never been more exciting than now, but ever more exciting times are yet to come.



DALLENBACH-HELLWEG, G.; KNEBEL DOEBERITZ, M. V.; TRUNK, M. J. *Color atlas of histopathology of the cervix uteri.* 2nd ed. Berlin, Heidelberg: Springer, 2006.

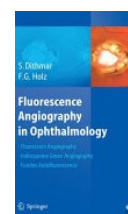
Não consta resumo.



DELAINI, G. G. *Inflammatory bowel disease and familial adenomatous polyposis: clinical management and patients' quality of life.* Milano: Springer, 2006.

Inflammatory bowel disease (IBD) and familial adenomatous polyposis (FAP) are complex diseases, which are subject to numerous medical researches. Despite increased knowledge on the pathophysiological process, many aspects remain rather unclear, especially concerning IBD. The genetic basis of FAP is well known, but there is still debate about IBD, which seems more likely to be a multifactorial disease, where the illness is due to interactions between environmental and genetic factors. In the near future, the aim will be to prevent these disorders and their sequelae through early detection and early intervention (for example genetic therapy). Unfortunately, we are still dealing with young patients with a lifelong disease course, leading to early morbidity (and in some cases mortality) and extended needs for medical treatment, with a consequent decrease in quality of life. IBD and

FAP represent a challenge for a multidisciplinary medical approach where different personnel play major roles in different stages of the patient's treatment. It is in this light that basic scientists, geneticists, pathologists, radiologists, gastroenterologists, surgeons, psychologists and WOC/ET nurses have to work together in order to improve the outlook of these patients and their families.



DITHMAR, S.; HOLZ, F. G. *Fluorescence angiography in ophthalmology.* Berlin, Heidelberg: Springer, 2008.

The technology of angiographic systems has been improved tremendously just within the past few years. This has allowed greatly increased levels of image resolution for both fluorescein and indocyanine green angiography. This new atlas by Dithmar and Holz covers the basic principles of the new methods for fluorescein- and indocyanine green-angiography, as well as the high resolution imaging of fundus autofluorescence. The angiographic signs of retinal and choroidal diseases are illustrated with images taken from a series of clinically relevant case examples that specifically illustrate the advantages of higher image resolution for the study of common retinochoroidal disorders. In so doing, this atlas offers an all-encompassing survey of the many angiographic signs in

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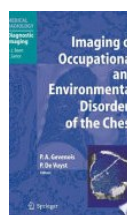
these disorders and their differential diagnoses. Clinicians in all subspecialties of ophthalmology can profit from a better understanding of these pathophysiological phenomena.



FINK, M. P. *Classic papers in critical care*. 2nd ed. London: Springer, 2008.

Every medical specialty has at its basis a core of classic papers, which both reflect the historical background and give insight into present and future developments. The papers discussed in this book are considered classics for many reasons, but in all cases they highlight landmarks in the development in critical care medicine and therefore providing an invaluable reference for both trainee and practising clinicians. The editors assembled a distinguished team of internationally recognized experts who chose what they considered to be the most important papers in their subspecialty. Each entry follows a set format, starting with an abstract and reference to the original paper and followed by analysis of the strengths, weaknesses and contribution it has made to the development of critical care. Where possible, further information about each paper is given and a detailed analysis of the top 500 most widely cited papers is provided. Providing a document of every cornerstone paper in

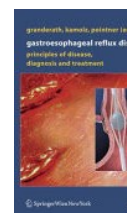
critical care, this revised and updated book is a key reference resource for all working in the field. It is essential reading for trainees and practising clinicians in emergency medicine and critical care, senior nursing staff, academic scientists and all professionals involved in the treatment of patients in the critical care unit.



GEVENOIS, P. A. *Imaging of occupational and environmental disorders of the chest*. Berlin, Heidelberg: Springer, 2006.

The spectrum of occupational and environmental diseases has changed markedly during the past decade. Pneumoconiosis is still a common cause of chronic lung disease but the concept has evolved to encompass reactions of the lung to chemicals and organic or inorganic dust. Furthermore, new industrial processes have led to the production and use of a wide range of chemicals, metals, and alloys, an increasing number of which, including manmade organic particles, are reported to cause interstitial lung disease in exposed workers. Thus, while the workforce in coal mining and asbestos handling has decreased, new groups of workers are at risk of exposure to large amounts of mineral and metallic dusts that may induce pneumoconiosis. This well-illustrated book, written by internationally acclaimed experts, provides an up-to-date and comprehensive approach to modern imaging of

environmental and occupational diseases of the chest. The first part of the book addresses the basic knowledge required to understand imaging in this context, while the second focuses on the imaging results achieved in a variety of specific disorders. There is particular emphasis on the role of thin-section computed tomography since this technique facilitates the detection of early subclinical abnormalities.



GRANDERATH, F. A. *Gastroesophageal reflux disease: principles of disease, diagnosis, and treatment*. Vienna: Springer, 2006.

Gastroesophageal reflux disease (GERD) is one of the most common disorders with an increasing prevalence and incidence in the last two decades. This book, edited by two experienced surgeons and a clinical psychologist in cooperation with numerous worldwide leading experts, presents clinically relevant information for gastroenterologists, internists, surgeons, residents and also nurses, who frequently care for GERD patients. Focusing on different treatment concepts – medical, endoscopic as well as surgical – the chapters include the basics of symptomatology and epidemiology, pathophysiology, GERD among different age groups, complications and its treatment, hiatal hernia or H. pylori and GERD, NERD and

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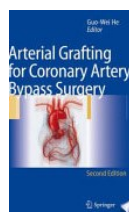
functional heartburn, diagnostic procedures and also presurgical examination. In addition, the patient's perspectives of disease, diagnostics and treatment are included, the same as economic aspects of GERD, and the impact of disease on quality of life or patient-reported outcomes after treatment.



HANDLER, C. E. *Classic papers in coronary angioplasty*. London: Springer, 2006.

Every medical specialty has a core of classic papers that reflect both the historical development of the discipline and point the way to present and future developments. The editors of *Classic papers in coronary angioplasty* have assembled a distinguished team of international contributors, to identify, analyze and bring together in a single volume the most important articles from a broad range of publications that have become recognized as the defining articles in coronary angioplasty. This publication is a unique reference, for not only does it provide a single source for reviewing the most important papers in the discipline, it also provides a critical analysis of the strengths, weaknesses and the impact each paper has had on the development of coronary angioplasty. This book will be essential reading for cardiologists – in parti-

cular interventional cardiologists – radiologists, vascular surgeons and all involved in research and clinical practice in the field of coronary angioplasty.



HE, G.-W. *Arterial grafting for coronary artery bypass surgery*. 2nd ed. Berlin, Heidelberg: Springer, 2006.

The second edition of this book provides updated knowledge about the biological characteristics and clinical use of arterial grafts for coronary artery bypass surgery. The reader will find first-hand information on arterial grafts as well as vein grafts with regard to biological characteristics, clinical use including off-pump coronary bypass grafting surgery, results, and future developments. Written by world-renowned cardiac surgeons and cardiovascular research scientists working in this area, the book will be invaluable both as a practical guide and as a stimulus for further improvement of arterial grafting techniques and technology.



HÜBNER, U. *eBusiness in healthcare: from eProcurement to supply chain management*. London: Springer, 2008.

When speaking about eBusiness as applied to the healthcare market two questions arise immediately. Firstly, what is eBusiness? Secondly, why is eBusiness in healthcare different from eBusiness in other sectors? Within the arena of eBusiness in healthcare, the focus is on purchasing and selling online as the most advanced application. In this book, the authors consider both the perspective of the healthcare providers and that of the suppliers, showing the interdependencies between the two and developing concepts for a new synergistic cooperation. eBusiness in healthcare raises awareness of and interest in electronically mediated business processes in healthcare to a large audience including healthcare informaticians, medical business managers, clinicians, pharmacists and scientists. By taking an international approach to the topic the authors demonstrate the many similarities of eBusiness problems and their solutions among different countries which permits analysis of the differences that are often defined by the national healthcare systems and their rules. Case studies from healthcare institutions and from suppliers in the US, the UK and Germany will illustrate the achievements, barriers and future plans, thus enabling newcomers to learn from previous experience. Clinicians will gain significant insight by this book which demonstrates the interconnection between patient care processes and management issues at the level of medical supplies. The book also makes a plea for a multi-disciplinary effort, to enable the right

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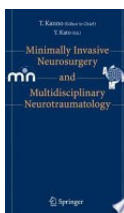
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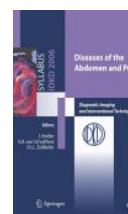
product to be procured for the right patient. As a rather new discipline, eBusiness in healthcare needs further scientific backing. Against this background, this book will not only provide answers but will also raise questions for future research. Managing change and innovation and establishing the critical mass for eBusiness in healthcare is a major undertaking. The aim of this book is to support this process.



INTERNATIONAL
Congress of Minimally
Invasive Neurosur-
gery (6th: 2005: Na-
goya, Japan); KAN-
NO, Tetsuo. *Minimally
invasive neurosurgery
and neurotraumatology*. Tokyo:
Springer, 2006.

Neurotraumatology patients present an enormous challenge to society. Neurosurgical management of brain and spinal cord injury has been a frustrating area, as surgical methods, especially in moderate and severe injuries, have been limited to control of brain and spinal compression, control of intracranial pressure with its expected effect on cerebral blood flow, and structural repair of the supporting structures (skull, spine, brain and spinal cord coverings). Achieving the best outcome for the neurotraumatology patient, however, requires much more than that. This important issue has thus far been approached through the broadest spectrum of scientific knowledge, from the most funda-

mental biological sciences to the social sciences. Such a variety of approaches has for a long time been in need of a "center of gravity;" a balancing point where facts and opinions can meet and be integrated. The management of neural injury is awaiting a breakthrough, and we should do our best to facilitate. As the majority of the new discoveries tend to appear at the integrating borderlines of two separate scientific areas, our duty is to bring together all scientists involved with neural injury. We all hope that the meeting has fulfilled this goal and is a step forward in bringing together previously distant areas of knowledge in neurotraumatology. These proceedings contain the full text of the submitted reports, with the intention of providing the information and personal opinions of the participating speakers to those who were unable to attend.



INTERNATIONAL Diag-
nostic Course in Davos
(38th: 2006); HODLER, J.
*Diseases of the abdomen
and pelvis: diagnostic ima-
ging and interventional
techniques*. Milano: Sprin-
ger, 2006.

Written by internationally renowned experts, this volume is a collection of chapters dealing with imaging diagnosis and interventional therapies in abdominal and pelvic disease. The different topics are disease-oriented and encompass all the relevant imaging modalities including X-ray technology, nuclear medicine, ultrasound and magnetic resonance, as well as image-guided interventional techniques. The book represents a condensed overview of twenty topics relevant in abdominal and pelvic disease, and is aimed at residents in radiology as well as at experienced radiologists wishing to be updated on the current state-of-the-art.

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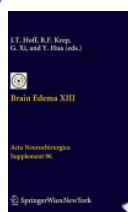


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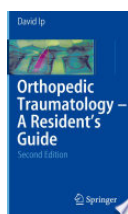
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INTERNATIONAL
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Ann Arbor, USA);
HOFF, J. T. BRAIN
EDEMA XIII. Vienna:

Springer, 2006.

Não consta resumo.



IP, D. *Orthopedic
traumatology — a
resident's guide*. 2nd
ed. Berlin, Heidel-
berg: Springer, 2008.

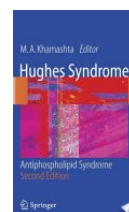
There has been very rapid development in computing in recent years and this is now a general trend in the field of orthopedics. Orthopedic trauma is no exception, as there is much enthusiasm surrounding the use of surgical navigation in musculoskeletal trauma. In light of these developments, the successful first edition of this book has been revised and updated. A lot of new information has been added to the original chapter on CAOS (computer-aided orthopedic surgery). Also, as the WHO has published new guidelines on osteoporosis management, together with the many conceptual changes in this area, adding a chapter on osteoporosis is both timely and appropriate. A chapter on hip fracture rehabilitation has also become necessary, not only because

it echoes the teachings of the chapter on osteoporosis, but also because of the projected exponential increase in the occurrence of this fracture by the year 2050.



JATOI, I.; KAUFMANN,
M. *Atlas of breast surgery*.
Berlin, Heidelberg: Springer,
2006.

In recent years, there have been several important developments in the surgical management of breast diseases, such as new techniques for tumor resection, reconstructive surgery, lymph node assessment, and cosmetic surgery. Thus, perhaps more than in any other field, breast surgery has evolved into both a surgical science and an art. This atlas describes various surgical techniques for treating diseases of the breast, incorporating both the science and art of this unique field.



KHAMASHTA, M. A.
Hughes syndrome: antiphospholipid syndrome.
2nd ed. London: Springer,
2006.

The second edition of Hughes syndrome: antiphospholipid syndrome addresses the complete range of conditions produced by this common disorder which is also known as APS or "sticky blood" syndrome. APS is one of the main causes of strokes (40%), leg deep vein thrombosis, and recurrent miscarriages in women. It is an important risk factor for thrombosis in women taking the oral contraceptive pill. The effects of this syndrome were found initially in thrombosis, obstetrics (APS is the most common treatable cause of recurrent pregnancy loss) and neurology. Its impact is now felt in a diverse range of conditions. These include surgery (graft rejection), orthopedics (avascular necrosis, DVT), psychiatry (memory loss), cardiology (pulmonary hypertension, valvular disease, angina), ENT (vertigo), pediatrics (young strokes, epilepsy) to name but a few. This new and updated text reflects the growth in published literature on APS and the widening ramifications of the disease. APS is a multi-specialty disease and is of increasing interest to obstetricians, rheumatologists, hematologists, dermatologists, neurologists and immunologists.

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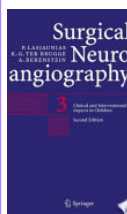
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KOHNEN, T. *Cataract and refractive surgery.* Berlin, Heidelberg: Springer, 2006.

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LASJAUNIAS, P.; BRUGGE, K. G. ter. *Surgical neuroangiography 3: clinical and interventional aspects in children.* 2nd ed. Berlin, Heidelberg: Springer, 2006.

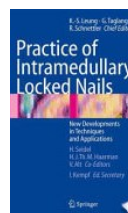
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LEINER, T et al. *Clinical blood pool MR imaging.* Berlin, Heidelberg: Springer, 2008.

Clinical Blood Pool MR Imaging »This excellent treatise on Vasovist® created by a team of exceptional faculty who are pioneers in MR Angiography covers the basic techniques, safety, efficacy, image processing and pharmacoeconomic details to successfully implement a new level of MRA image quality with this new contrast agent.« Martin Prince, Cornell University, New York »The editors and authors have made groundbreaking contributions towards establishing MR angiography in various investigative settings, rendering it more precise and applying it for diverse indications. The work presented here is founded upon the extensive experience of the editors, as well as the broad range of experience from other scientific working groups.« Maximilian Reiser, Ludwig Maximilian University, Munich Vasovist® (Gadofosveset), worldwide the first blood pool agent, has only recently become available for clinical use, but has already gained wide acceptance as a tool to improve magnetic resonance angiography. This book presents the first in-depth introduction to the basic physicochemical aspects of the agent, the application of Vasovist® in clinical MRA, as well as potential clinical applications beyond MRA and patient management-related aspects. The first part of the book explains basic and technical properties of the agent and the differences of Vasovist® compared to

currently available extracellular agents. The second part contains detailed chapters on safety and efficacy. In the third part the focus is on MR angiographic applications, and in the fourth part of the book potential clinical fields beyond MRA are explored. All clinical chapters feature ready-to-use clinical protocols and a series of take home messages that concisely summarize the current role of blood pool imaging for each specific indication.



LEUNG, K. *Practice of intramedullary locked nails: new developments in techniques and applications.* Berlin, Heidelberg: Springer, 2006.

The third volume of the "Practice of intramedullary locked nails" places a special focus on recent advancements in understanding the biology of fracture healing of long bones, the emerging technologies that further enhance the minimally invasive nature of closed treatment of fractures, and the availability of various surgical techniques in intramedullary fixation. The application of new technology in prevention of infection and application of the intramedullary fixation of fractures in pediatric and adolescent patients are also described. The contributors to this volume are from different well-known trauma centers and are pioneer surgeons in the development and practice of intramedullary locked nails.

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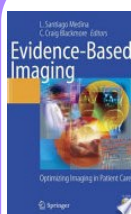


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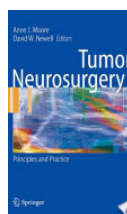
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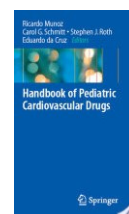
MEDINA, L. S. *Evidence-based imaging: optimizing imaging in patient care*. New York, NY: Springer, 2006.

Evidence-based imaging: optimizing imaging for patient care presents the radiologist and clinician with a user-friendly guide to the evidence-based science and the merit behind the diagnostic imaging studies performed in medicine. Edited by Drs. L. Santiago Medina and C. Craig Blackmore, this ideal reference gathers contributions by internationally renowned specialists in the field. The book provides a systematic framework for understanding the best imaging choices for patient care. Chapters highlight key points that support the clinical applications, allowing fast access to pertinent information. Topics include patient selection, imaging strategies, test performance, cost-effectiveness, and applicability. Nine major areas of medical imaging are covered: oncology, neuroimaging, abdomen, thorax, musculoskeletal, cardiovascular, pediatrics, trauma, and women's imaging. Emphasis is placed on common diseases. A wealth of illustrations and summary tables reinforces key evidence. By offering a clear understanding of the science behind the evidence, the book fills a void for radiologists, clinicians, residents, and others with an interest in medical imaging and a desire to implement an evidence-based approach.



MOORE, A. J. *Tumor neurosurgery: principles and practice*. London: Springer, 2006.

Tumor neurosurgery is a compilation by a faculty of internationally recognized expert authors to provide information on the basic knowledge and clinical management required for optimal care of neurosurgical patients. The text is an up-to-date synopsis of the field of tumor neurosurgery from an international perspective which covers the most common clinical conditions encountered by neurosurgeons in this area. The chapters cover investigative studies, perioperative care, the role of newer techniques, and management of tumors. Tumor neurosurgery is a useful tool for neurosurgeons to consult for both basic and more sophisticated information and procedures in tumor neurosurgery.



MUNOZ, R. *Handbook of pediatric cardiovascular drugs*. London: Springer, 2008.

The treatment of pediatric patients with congenital or acquired cardiac disease remains an important challenge for physicians in charge of these patients. The challenge to practitioners is complex given that most drugs used in this field are either unlicensed or off-label and that the patient population is a heterogeneous group not only in pathologies but also in size, weight and metabolism. Currently, doctors must rely on the available pharmacological knowledge, the rare clinical trials and case series and most of all on the international cumulative clinical experience. The Handbook of Pediatric Cardiovascular Drugs provides the health care practitioner with general clinical and practical guidelines regarding the use of pediatric cardiovascular drugs. It reviews basic pediatric cardiovascular principles and satisfies the need for a pocket reference handbook tailored to meet the daily challenges of practitioners caring for pediatric cardiac patients. This handbook is not intended to provide an extensive review of all cardiovascular medications, but compiles the necessary information required to assist the practitioner involved in the care of pediatric patients with heart disease in their day-to-day practice. Consequently, it will be helpful for physicians, fellows, residents, pharmacists, and nurses in the multiple disciplines of anesthesia, pediatrics, critical care, cardiology, cardiac surgery and cardiac intensive care.

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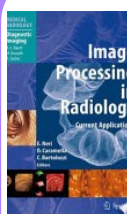


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NERI, E. *Image processing in radiology: current applications*. Berlin, Heidelberg: Springer, 2008.

Few fields have witnessed such impressive advances as image processing in radiology. The progress achieved has revolutionized diagnosis and greatly facilitated treatment selection and accurate planning of procedures. This book, written by leading experts from many countries, provides a comprehensive and up-to-date description of how to use 2D and 3D processing tools in clinical radiology. The first section covers a wide range of technical aspects in an informative way. This is followed by the main section, in which the principal clinical applications are described and discussed in depth. To complete the picture, a third section focuses on various special topics. The book will be invaluable to radiologists of any subspecialty who work with CT and MRI and would like to exploit the advantages of image processing techniques. It also addresses the needs of radiographers who cooperate with clinical radiologists and should improve their ability to generate the appropriate 2D and 3D processing.



NIMSKY, Christopher. *Medical technologies in neurosurgery*. Vienna: Springer, 2006.

The tremendous progress evolving in medical technologies in recent years increasingly influences our daily neurological practice. Ethical aspects in the application of technologies from differing viewpoints are discussed in detail. Additionally, typical examples for the application of medical technologies in the operating room include image processing, robotic devices, and intraoperative imaging are clearly presented.



ÖZEK, M. M. *Spina bifida: management and outcome*. Milano: Springer, 2008.

The evolution of technology has made new surgical techniques available for the treatment of diseases associated with the spina bifida malformation, and this is especially true in hydrocephalus and fetal surgery. The progress in this last field and in prenatal diagnosis have raised the significant problem of the effectiveness and usefulness of in utero surgical treatment of the malformation, that are extensively discussed in this volume. Also the clinical situations that can be seen in adolescents or young adults with spina bifida, including sexuality and pregnancy, are highlighted. Aim of this book is to promote a multidisciplinary approach to spina bifida, providing the three main specialists' categories involved - neurosurgeons, orthopaedic surgeons, and urologists - with an updated overview of surgical approaches and with a concise reference that explains the main clinical problems to be faced in everyday clinical practice.

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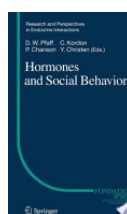
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PATERSON, J. K.
Musculoskeletal medicine in clinical practice.
London: Springer,
2006.

With a foreword by a pioneer of pain clinics, Dr Keith Budd, this pocket-sized book is a handy reference for family practitioners, medical educators in musculoskeletal medicine. In addition to explaining what musculoskeletal medicine is, this book discusses pain in: head, neck, shoulder and arm, chest, lower trunk, pelvis, leg. It then discusses whether musculoskeletal treatment will work in these cases, and casts a short look at the future of musculoskeletal medicine. In particular it clarifies what is not within the realm of musculoskeletal medicine – neurological complaints, orthopedic problems and the inflammatory diseases in particular.



PFAFF, D. W. *Hormones and social behavior.* Berlin, Heidelberg: Springer, 2008.

Advances in 21st century neuroscience and endocrinology will permit complex problems of medicine and public health to be elucidated. Among these problems are failures of normal social and sexual behaviors. As it turns out, these behaviors are influenced by hormone actions in the human brain using mechanisms that we have inherited from lower animals. This book concentrates on two major topics: First, the molecular and neural biology of hormone actions relevant to normal social behaviors; and Second, the clinical treatment of human patients in whom these behaviors have gone wrong.



PICCART, M. J. *Breast cancer and molecular medicine.* Berlin, Heidelberg: Springer, 2006.

Molecular-based medicine is taking center stage due to the increasing knowledge of breast cancer molecular biology. Treatment tailoring is no longer a dream for the future, but the main goal of current research. This book provides an overview of the most recent techniques, agents and approaches for breast cancer that contribute to the individualization of treatment. Current biomedical research focuses on facilitating the transfer of molecular biology knowledge into the clinical management of patients, leading to increased survival as well as improved quality of life. Particular attention is given in this book to organ-specific tailored approaches, specific populations, patients' preferences and rehabilitation. Also discussed in depth are the respective roles of pharmacotherapeutics modelling, functional imaging, molecular staging, genomics and proteomics and their impact on the "re-classification" of breast cancer, as well as the clinical applications of basic science. The crucial issue of how to optimally integrate biological markers, new technologies and new diagnostic and therapeutic approaches into clinical trials and clinical practice is addressed. Combining the contributions from authors who are well known experts in these fields with editorial comments, this book provides an overview of the latest achievements in breast cancer and their use in clinical practice.

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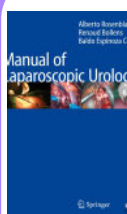


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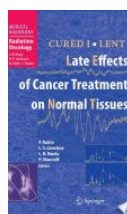
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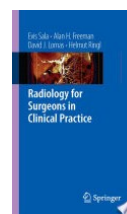
ROSENBLATT, A.;
BOLLENS, R. *Manual
of laparoscopic urology.*
Berlin, Heidelberg:
Springer, 2008.

In this book every urologic procedure is described in a step by step sequence of events and the text is supplemented with innumerable Tips, colored illustrations and high definition photographs depicting the main steps of the procedures. The structure of every chapter is extremely clear, and emphasis is given to the laparoscopic surgical technique. The aim of this manual is to provide the Urologic Surgeon the practice of the art of Laparoscopic Surgery. It guides the reader through every stage of the laparoscopic procedure, from the equipment's settings to the correct position of the needle on the needle holder. The first chapter introduces the reader to the basic aspects of Laparoscopy, the physiologic effects of pneumoperitoneum and its potential clinical outcome in the body systems, anesthesia problems in laparoscopy, technical considerations and check list on equipment and instruments. It demonstrates the correct handling of laparoscopic instruments, going through basic and advanced suturing techniques. The following chapters describe the surgical technique of urological procedures, including an introduction to the subject and ending with a reading list.



RUBIN, P. *Late effects of
cancer treatment on normal
tissues CURED I,
LENT.* Berlin, Heidelberg:
Springer, 2008.

The search for the most favorable therapeutic ratio – at which ablation of cancer is achieved while normal tissues are conserved – has been modern radiation oncology's equivalent of the quest for the Holy Grail. Our awareness of the late effects of radiation grew during the past century as new modalities were introduced. Heightened normal tissue reactions accompanied the higher rates of cancer ablation achieved by escalation of radiation doses, accelerated fractionated radiotherapy, and aggressive concurrent chemotherapy and radiation regimens. This volume is based on the LENT V NCI-sponsored meeting held in May 2004 and the CURED I conference held in 2006. Written by experts in the field, it addresses a number of critical topics relating to late effects, such as mechanisms of injury, the role of screening, options for interventions, second malignancies, and prevention. It is hoped that it will assist the reader in understanding how to prevent and treat the long-term side-effects of irradiation.



SALA, E. *Radiology for
surgeons in clinical practice.* London: Springer,
2008.

Radiology for surgeons in clinical practice' is aimed at surgeons both consultants and those in training who are interested in the advancing role played by imaging technology within surgical decision making. The prevalence of imaging technology in both the diagnosis and management of surgical patients has increased dramatically in recent years. The increased availability and combination of different imaging modalities have greatly improved the ability of obtaining rapid and accurate diagnoses. Cross-sectional imaging is now widely available and is routinely used to evaluate patients who potentially require surgery. Similarly, multi-detector CT plays a vital role in the management of acute surgical patients. It is therefore essential that the surgeons have a fundamental knowledge of the imaging findings of the main surgical pathologies. This book is organised in two sections, with the first part describing the principles of imaging, and the different imaging techniques available to the surgeon. The advantages and disadvantages of each technique are also highlighted providing useful information and guidance to the surgeon on the appropriate choice of imaging. The second part of the book is symptom-based rather than organ-based, with the aim of providing a practical hands-on approach to imaging patients with common surgical complaints. Written by leading experts in the field, this book will help the sur-

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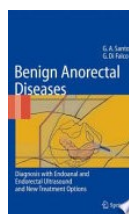
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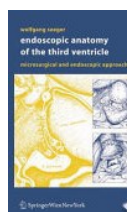
geon to better understand the imaging options available to them, and choose the correct modalities using a problem-based approach.



Milano: Springer, 2006.

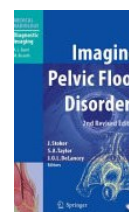
New three-dimensional endoanal and endorectal ultrasonographic and magnetic resonance imaging techniques have given better insight into the complex anatomy of the pelvic floor and its pathologic modification in benign anorectal diseases. Obstetrical events leading to fecal incontinence in females, the relationship between fistulous tracks and the sphincter complex, and mechanisms of obstructed defecation syndrome can now be accurately evaluated, which is of fundamental importance for decision making. Thanks to improvements in the diagnosis of these disorders, new forms of treatment have been developed with better outcome for patients. This book is aimed at general and colorectal surgeons, radiologists, gastroenterologists and gynecologists with a special interest in this field. It is also relevant to everyone who wants to improve their understanding of the fundamental principles of pelvic floor disorders.

SANTORO, G. A.;
DI FALCO, G. *Benign
anorectal diseases:
diagnosis with endoa-
nal and endorectal
ultrasound and new
treatment options.*



SEEGER, W. *Endoscopic
anatomy of the third ven-
tricle: microsurgical and
endoscopic approaches.*
Vienna: Springer, 2006.

In this atlas anatomical aspects important for combinations of microsurgical and endoscopic approaches are presented and illustrated. Modern imaging techniques are necessary for the three-dimensional orientation but do not show enough details for endoscopic interventions. The small visual fields need a combination of the depiction of fine details and of the three-dimensional presentation of large areas. Furthermore, problems with little known anatomical standard variants of the target areas may arise. Therefore, numerous common anatomical variants are demonstrated with reference to their impact for the surgical technique. The basis for Professor Seeger's well known drawings have been anatomical preparations, cadaver dissections and intraoperative pictures. The correct proportions are derived by measuring the distances of anatomical landmarks of cranial preparations and from CT and MR Images. The concise text supports the understanding of the anatomical figures.



STOKER, J. *Imaging
pelvic floor disorders.* 2nd
ed. Berlin, Heidelberg:
Springer, 2008.

This volume builds on the success of the first edition of Imaging pelvic floor disorders and is aimed at those practitioners with an interest in the imaging, diagnosis and treatment of pelvic floor dysfunction. Concise textual information from acknowledged experts is complemented by high-quality diagrams and images to provide a thorough update of this rapidly evolving field. Introductory chapters fully elucidate the anatomical basis underlying disorders of the pelvic floor. State of the art imaging techniques and their application in pelvic floor dysfunction are then discussed in detail. Additions since the first edition include consideration of the effect of aging and new chapters on perineal ultrasound, functional MRI and MRI of the levator muscles. The closing sections of the book describe the modern clinical management of pelvic floor dysfunction, including prolapse, urinary and faecal incontinence and constipation, with specific emphasis on the integration of diagnostic and treatment algorithms.

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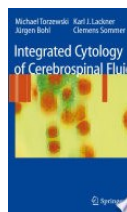
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THOMAS, W. E. G.
Short stay surgery.
Berlin, Heidelberg:
Springer, 2008.

An ever-increasing number of surgical procedures are now being performed in ambulatory settings. Hospital beds are at a premium and resources are becoming scarcer. This atlas guides readers through all the practicalities: it looks at the potential of short-stay surgery, how to set it up and how it may be relevant to all surgical specialities. Specialists well known in their sphere discuss and illustrate operations that can be performed without a stay in hospital. The topics covered will become more and more relevant as time goes by, and those who read this book will be able to stay well ahead of the game. It is designed to help surgeons plan for the future and discover the vast potential for this form of surgery.



TORZEWSKI, M. *Integrated cytology of cerebrospinal fluid.* Berlin, Heidelberg: Springer, 2008.

Cytologic examination of the cerebrospinal fluid is a technically simple, yet productive, diagnostic procedure. Integrated cytology of cerebrospinal fluid is a practical guide to this method used in the diagnosis of different pathologies. High-quality slides depict the common cerebrospinal fluid cell types, cell anomalies in inflammatory conditions and neoplastic and non-neoplastic disorders, and cases with contaminants. The integrated approach includes the use of immunocytochemical, histological, and immunohistological illustrations and quantitative data in addition to descriptions and photographs of cytologic preparations.



TYRING, S. K. *Mucosal immunology and virology.* London: Springer, 2006.

An understanding of viral infection and the underlying role of the immune system in protection against these diseases is vital in today's medical climate. Previously, only symptoms could be treated, as no antiviral therapies existed in clinical medicine. The increasing amounts of research and discoveries of immunologic agents and pathways have enabled specialists to observe the basic physiology of the various disease processes as never before and provide effective management options tailor-made for patients. Mucosal immunology and virology is designed to provide the clinician with a thorough and yet approachable textbook describing the relationships between immunology, virology and the disease process. It includes a vast wealth of information and illustrations to enable the reader to become familiar with the clinical presentation of these diseases, the tests needed to establish the diagnosis, and the treatment of the disease including specific antiviral agents. Suitable for residents and clinicians in immunology, infectious diseases, internal medicine and dermatology the book reviews the systematic manifestations of mucosal viral infections, including those involving the mouth, gastrointestinal tract, respiratory system, anogenital mucosa and ocular infections.

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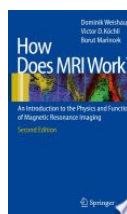
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VOGL, T. J. *Percutaneous tumor ablation in medical radiology*. Berlin, Heidelberg: Springer, 2008.

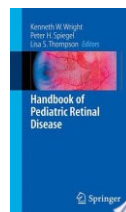
Thermal ablation has become an integral part of oncology, especially in the field of interventional oncology. This very comprehensive book encompasses the different technologies employed in thermal ablation, its indications and the results achieved in various clinical conditions. The first part of the book clearly explains the basics of thermal ablative techniques such as laser-induced thermotherapy, radiofrequency ablation, microwave ablation, cryotherapy, and localized tumor therapy. The latest developments in the application of minimally invasive therapies in localized neoplastic disease are demonstrated. In the main part of the book, techniques of guiding the applicators to the target structures by use of different imaging tools such as ultrasound, computed tomography and magnetic resonance imaging are discussed. The results are presented for a variety of clinical indications, including liver and lung tumors and metastases and some rather rare conditions involving the kidney, the head and neck, the prostate, and soft tissue structures. A large number of acknowledged experts have contributed to the book, which benefits from a lucid structure and excellent images.



WEISHAUPT, D.; KÖCHLI, V. D. *How does MRI work? An introduction to the physics and function of magnetic resonance imaging*. 2nd ed. Berlin, Heidelberg: Springer, 2006.

It is with great pleasure that we present this completely revised English edition of our book *How does MRI work? An introduction to the physics and function of magnetic resonance imaging* only two years after publication of the first English edition. We are particularly pleased that our introductory textbook met with great approval in the English-speaking world and not just in the German-speaking countries. This success has been an enormous incentive for us to further improve and update the text. For this reason, we are now presenting a second edition. All chapters have been thoroughly revised and updated to include the latest developments in the ever-changing field of MRI technology. In particular, the chapter on cardiovascular imaging has been improved and expanded. We gratefully acknowledge the contribution of Daniel Nanz, PhD, the author of this chapter. Moreover, two completely new chapters have been added: "Fat suppression techniques" and "High-field clinical MR imaging". Notwithstanding these additions, the intended readership of our book remains the same: it is not a book for MR specialists or MR physicists but for our students, residents, and technologists, in short, all those who are interested in MRI and are looking

for an easy-to-understand introduction to the technical basis of this imaging modality at the beginning of their MRI training. The second English edition presented here corresponds to and appears together with the completely revised fifth German edition.



WRIGHT, K. W. *Handbook of pediatric retinal disease*. New York, NY: Springer, 2006.

Based on Dr. Wright's classic major reference, *Handbook of pediatric retinal disease* outlines the latest findings in diagnosing retinal disorders in children's and the best available treatment options. Distilling the essentials of these somewhat uncommon disorders and diseases into a portable, complete and authoritative pocket reference, this handbook offers a complete picture of how to best treat pediatric patients. Specifically, the introductory chapters on the specifics of pediatric ophthalmology (embryology, post-natal development and the pediatric exam) will help newcomers to pediatric practice fully grasp the subtle differences in pediatric care. The chapters are written by leading experts in the field and are presented in a user-friendly format, relying on heavily illustrated in color plates, clinically helpful tables, charts, and decision-making guidelines. This approach will enable the practitioner (whether specialist or generalist) to make the most accurate diagnosis and choose the most effective treatment option.

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ZENG, Y. *Longer life and healthy aging*. Dordrecht: Springer, 2006.

A fundamental issue facing the global community is meeting the challenges of population aging and achieving healthy aging to maintain an active older population and reduce the number of disabled people. The focus of this book is on theoretical issues and empirical findings related to trends and determinants of healthy aging, including factors related to "healthy longevity" of the oldest-old, aged 80 and over. The group is the most rapidly increasing elderly sub-population and is most likely to need assistance in daily living in all countries. Chapters include both longitudinal and cross-sectional data from North America, Europe, and Asia in country-specific studies and cross-national comparisons. Part I focuses on the definition, components, concepts, measurements, and determinants of healthy aging, and discusses the trends and patterns of disability and healthy life expectancy at the macro level. Part II addresses individual healthy aging, including its biological and socio-demographic aspects. Part III focuses on issues concerning the family and healthy aging, and Part IV explores formal and informal care for healthy aging through governmental policy interventions and community service programs.



ZIELINSKI, K. *Information technology solutions for healthcare*. London: Springer, 2006.

Understanding how healthcare is being transformed by IT is key to the improvement of medical standards and reduction of cost. The synergy between computer technology and medical services allows fascinating new possibilities for benefit in areas such as continuing care, chronic disease treatment and home monitoring, bringing with it the promise of essential changes in existing models of care delivery and system performance. This book presents the current and future trends in the transformation of healthcare services in the Information Society Era and is of great relevance to informatics professions, clinical managers and all clinicians using these new technologies as part of their practice. Information technology solutions for healthcare addresses the priorities within international informatics and presents a thorough survey of the most promising e-health technologies, including internet-enhanced healthcare services and mobile technology via modern wireless technologies. It is illustrated with case reports identifying real applications of the techniques and focused on providing an integrated overview of e-health and medical, sociological and technical aspects of the application of e-health technologies.

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