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Guides to Hybrid Imaging, which is aimed at referring clinicians, nuclear medicine/radiology physicians, radiographers/technologists, and nurses who[...]
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CT Colonography for Radiographers
A Guide to Performance and Image Interpretation
This book explains every aspect of the role of radiographers in performing CT colonography (CTC) and interpreting CTC images with the aim of enabling radiographers to extend the scope of their practice. It provides all the information required with respect to procurement of informed consent, principles of CT and radiation dose, patient preparation and positioning, the use of contrast media, the performance of diagnostic and screening CTC studies, and the interpretation and reporting of images. A wide range of CTC findings are described and depicted, covering normal anatomy, artifacts, hemorrhoids, polyps, colon cancer, diverticular disease, lipomas, and extracolonic structures. In[...]
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PET/CT in Gynecological Cancers
This book is a pocket guide to the science and practice of PET/CT imaging of gynecological malignancies. The scientific principles of PET/CT, the radiopharmaceuticals used in the context of gynecological cancers, the role of PET/CT in these patients, the characteristic PET/CT findings, and limitations and pitfalls are all clearly described. In addition, information is provided on clinical presentation, diagnosis, staging, pathology, management, and radiological imaging. The book is published within the Springer series Clinicians’ Guides to Hybrid Imaging, which is aimed at referring

E. Casas Rojo, C. Fernandez-Golfin, J.L. Zamorano (Eds.)

Manual of 3D Echocardiography
This book is a practical guiding manual to explain critical clinical practice in three-dimensional (3D) echocardiography. The use of this technology has been limited to certain pioneer imaging units, but with the advent of lower cost hardware it is spreading and reaching more users that will start to use it often without previous experience or formal academic training. This title provides these readers with a full review of the features, clinical indications and methodological aspects of 3D echo in a practical, “how-to-do-it” way. 3D-echocardiography techniques are becoming more diverse, as they are applied to transthoracic and transeosophageal studies, 3D-wall motion tracking, fusion[...]
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V.N. Cassar-Pullicino, A.M. Davies (Eds.)

Measurements in Musculoskeletal Radiology
This practical and comprehensive book provides succinct and up-to-date information on the value of the various diagnostic radiological measurements made using all the imaging modalities currently employed in the management of a wide spectrum of musculoskeletal disorders. The book has a unique design, with three distinct but dove-tailed sections. In the first section, the physico-chemical principles of the various imaging modalities used in measurements are explained, and the strengths and weaknesses of each modality are considered. The second section examines the application of the imaging modalities to obtain accurate measurements across all musculoskeletal anatomical sites. The[...]
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of staging work-up, including images. The treatment information relevant to diagnosis and by details is followed by a pathological description. Documentations follow a standard format. A clinical description of malignancies, multiple cases are presented. The case discussions follow a range of settings are illustrated with the aid of numerous representative cases. The coverage encompasses pathologies of the liver, spleen, pancreas, kidney, breast, thyroid, testis, musculoskeletal system, and vascular system. In addition, helpful correlations with imaging appearances on ultrasound and computed tomography are included. Elastosonography is a powerful, relatively new diagnostic technique that assesses a prevalent pattern. A further feature of the book is its interdisciplinary nature: contributions from experts in various specialties are tightly interwoven throughout the individual diseases, grouped on the basis of their prevalence. A further feature of the book is its unique format: the key patterns of diffuse lung disease observed on high-resolution computed tomography (HRCT) and then documents in more detail the characteristics and appearances of the individual diseases, grouped on the basis of their prevalent pattern. A further feature of the book is its unique format: the key patterns of diffuse lung disease observed on high-resolution computed tomography (HRCT) and then documents in more detail the characteristics and appearances of the individual diseases, grouped on the basis of their prevalent pattern. A further feature of the book is its unique format: the key patterns of diffuse lung disease observed on high-resolution computed tomography (HRCT) and then documents in more detail the characteristics and appearances of the individual diseases, grouped on the basis of their prevalent pattern. A further feature of the book is its unique format: the key patterns of diffuse lung disease observed on high-resolution computed tomography (HRCT) and then documents in more detail the characteristics and appearances of the individual diseases, grouped on the basis of their prevalent pattern.
Breast MRI Teaching Atlas

This atlas serves as a basic introduction to breast MRI. Organized by case, it emphasizes pertinent breast MRI findings and common indications for breast MRI. Topics include breast MRI basics, benign findings, breast malignancy, high-risk conditions, interesting cases, and breast implants. Brief teaching points accompany each case and highlight the importance of the findings. Breast MRI Teaching Atlas is an ideal resource for diagnostic radiologists, residents, fellows, and clinicians involved in the care of breast cancer patients, including surgeons, oncologists, and obstetricians/gynecologists.


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2017. XI, 344 p. 335 illus., 120 illus. in color.
▶ 234,33 €
Erscheinungstermin: April 11, 2017

Doppler Echocardiography in Infancy and Childhood

This book covers the full range of Doppler echocardiography in infants and children, documenting the wide variety of potential findings with the aid of a wealth of high-quality images. The imaging features of more than 20 conditions on conventional two-dimensional echocardiography, pulsed wave, continuous wave and color Doppler imaging are described and depicted, drawing attention to differential diagnostic criteria and other issues of importance in everyday clinical practice. Each condition is individually addressed, covering all relevant aspects, and helpful information is also provided on the normal examination. The book is supplemented by more than 500 videos demonstrating typical...

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Erscheinungstermin: March 20, 2017

Musculoskeletal Diseases 2017-2020 Diagnostic Imaging

This book focuses on musculoskeletal imaging: during the last few years, there have been considerable advances in this area, driven by clinical as well as technological developments. The authors, internationally renowned experts in their field, have contributed chapters that are disease-oriented and cover all relevant imaging modalities, including magnetic resonance imaging, computed tomography, and positron emission tomography. As a result, this book offers a comprehensive review of the state of the art in musculoskeletal imaging. It is a valuable resource for general radiologists, radiology residents, rheumatologists, orthopaedic surgeons, and clinicians from other specialities...

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Personalized Pathway-Activated Systems Imaging in Oncology Principal and Instrumentation

This comprehensive volume covers radiopharmaceuticals developed for pathway-directed systems in imaging and theranostic applications. We now are at the cutting edge of providing personalized treatment with increased use in oncology of these new radiopharmaceuticals. Trends in high-resolution instrumentation development, quality assurance systems and regulatory compliance for radiopharmaceuticals, clinical evaluation of radiopharmaceuticals, and benefits and pitfalls of the current clinical FDG PET are discussed. Radiopharmaceuticals are used for diagnosis of diseases of the central nervous and cardiovascular systems and for staging, restaging, and treatment planning for cancers..

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Erscheinungstermin: March 28, 2017

Radiation Therapy for Gastrointestinal Cancers

This up-to-date, hands-on manual offers clear guidance on contouring and treatment planning for both standard and advanced radiation therapy in patients with gastrointestinal cancers and simultaneously draws together the available relevant clinical data for each type of cancer with a view to driving treatment recommendations. The full range of malignancies is covered, including esophageal, gastric, pancreatic, hepatic, biliary, colon, rectal, and anal cancers and pelvic recurrences. Additional chapters are devoted to stereotactic body radiation therapy (SBRT) to the liver for metastatic disease. The management of gastrointestinal cancers with radiation therapy has become increasingly...

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ISBN 978-3-319-43113-0
Erscheinungstermin: April 18, 2017
Oncologic Imaging: Bone Tumors

This book is a detailed guide to image interpretation in patients with spine and spinal cord tumors that will enable clinicians and residents to improve their diagnostic abilities. The book opens by introducing basic concepts in the imaging of spinal tumors, namely the compartmental approach and the histologic basis for the different imaging appearances. These concepts are explained with the aid of representative cases and schematic illustrations. The second part of the book represents a “training step” in which various spinal tumors are described in detail, focusing on the imaging findings. Representative cases are presented with radiographic, CT, and MR images; in addition, [...]


Hardcover
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Erscheinungstermin: April 3, 2017

Forthcoming

Oncologic Imaging: Bone Tumors

This book aims to provide readers with a sound understanding of the spectrum of radiologic appearances of bone tumors, which reflect histopathology, and the pattern analysis of imaging findings. The first part of the book explains basic concepts and diagnostic parameters, including demographics, lesion location, biological activity, matrix mineralization, and endosteal and periosteal reactions. In the second part, typical and atypical radiologic features of bone tumors are reviewed in detail, focusing on the imaging appearances. These concepts are explained with the aid of representative cases and schematic illustrations. The second part of the book represents a “training step” in which various spinal tumors are described in detail, focusing on the imaging findings. Representative cases are presented with radiographic, CT, and MR images; in addition, [...]


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Erscheinungstermin: April 3, 2017

Giant Intracranial Aneurysms

A Case-Based Atlas of Imaging and Treatment

This atlas focuses on the imaging and treatment options available for giant intracranial aneurysms since 1990s in the beginning of the so-called modern endovascular era. During this period, there were significant advances made in the therapy of small intracranial aneurysms though the treatment of giant aneurysms continued to pose an insurmountable challenge. At the turn of this century, this grim scenario gradually improved with better understanding of the pathophysiology of giant intracranial aneurysms. This changed scenario in giant intracranial aneurysm therapy has been illustrated with the aid of informative clinical case studies. The clinical presentation of giant [...]
tissue to whole animal imaging. Light Microscopy: Methods and Protocols puts special focus on system instrumentation parameters and sophisticated labeling and detection methods. Written in the highly successful Methods in[...]

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Imaging Biomarkers
Development and Clinical Integration
This is the first book to cover all aspects of the development of imaging biomarkers and their integration into clinical practice, from the conceptual basis through to the technical aspects that need to be considered in order to ensure that medical imaging can serve as a powerful quantification instrument capable of providing valuable information on organ and tissue properties. The process of imaging biomarker development is considered step by step, covering proof of concept, proof of mechanism, image acquisition, image preparation, imaging biomarker analysis and measurement, detection of measurement biases (proof of principle), proof of efficacy and effectiveness, and reporting of[...]

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Imaging Non-traumatic Abdominal Emergencies in Pediatric Patients
This book provides up-to-date, comprehensive, and accurate information on the diagnostic imaging of nontraumatic abdominal emergencies in pediatric patients. All of the most common neonatal and pediatric emergencies are covered, with separate discussion of diseases that occur more commonly in newborns and those typically encountered later in childhood. For each condition, the main signs observed using the various imaging techniques – X-ray, Ultrasonography, Computed Tomography, and Magnetic Resonance – are described and illustrated with the aid of a wealth of images. Attention is drawn to those features of particular relevance to differential diagnosis, and the prognostic value of[...]

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Chest Sonography
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much emphasis is placed on procedural safety, with a focus on complication[...]

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M. Scaglione, U. Linsenmaier, G. Schueller, F. Berger, S. Wirth (Eds.)

**Emergency Radiology of the Chest and Cardiovascular System**

This book provides an up-to-date, systematic review of all facets of emergency radiology in patients with chest trauma or pain with the aim of equipping the reader with a detailed knowledge of the various radiological patterns, which is essential in order to make a prompt diagnosis under circumstances when time is of critical importance. To this end, the indications, value, and results of the various emergency imaging modalities, including sonography and interventional radiology, are described and illustrated in the full range of blunt chest injuries and nontraumatic chest emergencies. Technological aspects, protocols tailored to the mechanism of injury, and post-processing techniques[...]

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M. Warmuth-Metz

**Imaging and Diagnosis in Pediatric Brain Tumor Studies**

This book describes the features in structural imaging of the most important pediatric brain tumors with the aim of enabling radiologists to make the correct differential diagnosis and to provide the pediatric oncologist with all the imaging information relevant to further management. The opening chapter is devoted to the complex subject of pediatric trials at the national and international levels and the importance of staging for stratification, differential treatment, and outcome. A general imaging protocol for children with brain tumors is presented, and individual chapters then identify key points for the differential diagnosis and staging of posterior fossa tumors, low-[-...]

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