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At present, MR imaging is not only the most important diagnostic technique in neuroradiology and musculoskeletal radiology, but has also become an invaluable diagnostic tool for abdominal, pelvic, cardiac, breast and vascular imaging. This book offers practical guidelines for performing efficient and cost-effective MRI examinations in daily practice.

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This book offers practical guidelines for performing efficient and cost-effective MRI examinations. By adopting a practical protocol-based approach the work-flow in a MRI unit can be streamlined and optimized. All chapters have been thoroughly reviewed, and new techniques and figures are included. There is a new chapter on MRI of the chest. This book will help beginners to implement the protocols and will update the knowledge of more experienced users.

In 15 years MRI has evolved into an essential modality, developing from being a preferred neuroimaging method to becoming a whole-body, comprehensive imaging approach. For this, various coils, pulse sequences, and contrast media have been developed. The complexity of the factors to consider often represents an obstacle not only to beginners but also to more experienced technicians and physicians. Since routine diagnostic questions represent more than 90% of clinical examinations, the intention of the editors and authors was to provide an understandable book for this purpose. The book gives practical

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information about performing effective and efficient MR examinations in daily practice. Solving clinical questions with new sequences should no longer be difficult for beginners in the field.

MRI is a continually evolving and expanding subject making an ever-increasing impact on medical practice. There are many comprehensive large MRI textbooks on the market but there is a distinct lack of short pocket-sized reference books to suit the growing number of people from various disciplines working in the medical imaging field today. This book provides an easily accessible source of reference material to supplement existing large texts.

Over the last decade, some of the greatest achievements in the field of neuroimaging have been related to remarkable advances in magnetic resonance techniques, including diffusion, perfusion, magnetic resonance spectroscopy, and functional MRI. Such techniques have provided valuable insights into tissue microstructure, microvasculature, metabolism and brain connectivity. Previously available mostly in research environments, these techniques are now becoming part of everyday clinical practice in a plethora of clinical MR systems. Nevertheless, despite growing interest and wider acceptance, there remains a lack of a comprehensive body of knowledge on the subject, exploring the intrinsic complexity and physical difficulty of the techniques. This book focuses on the basic principles and theories of diffusion, perfusion, magnetic resonance spectroscopy, and functional MRI. It also explores their clinical applications and places emphasis on the associated artifacts and pitfalls with a comprehensive and didactic approach. This book aims to bridge the gap between research applications and clinical practice. It will serve as an educational manual for neuroimaging researchers and radiologists, neurologists, neurosurgeons, and physicists with an interest in advanced MR techniques. It will also be a useful reference text for experienced clinical scientists who wish to optimize their multi-parametric imaging approach.

The underlying physics of magnetic resonance imaging is a topic of considerable importance since a basic understanding is necessary to accurately interpret and generate high quality MR images. Yet it can be a challenging topic in spite of the best efforts of both teachers and students of the subject. Practical MR Physics reviews the basic principles of MR using familiar language and explains the causes of common imaging artifacts and pitfalls. The book will also be a helpful guide during review of clinical cases since the reader can look up specific imaging artifacts or pitfalls in the index. Featuring over 375 high quality images, numerous case examples, and concise, clinically oriented discussion of the physics

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behind the images, Practical MR Physics is an ideal resource for anyone who works in the field of MR imaging.

(1E 1986) Guide to conducting MI exams of head & body/rapid imaging/motion suppression/blood flow effects/contrast agent

Practical Small Animal MRI is the seminal reference for clinicians using Magnetic Resonance Imaging in the diagnosis and treatment of veterinary patients. Although MRI is used most frequently in the diagnosis of neurologic disorders, it also has significant application to other body systems. This book covers normal anatomy and specific clinical conditions of the nervous system, musculoskeletal system, abdomen, thorax, and head and neck. It also contains several chapters on disease of the brain and spine, including inflammatory, infectious, neoplastic, and vascular diseases, alongside congenital and degenerative disorders.

Clinically oriented and well illustrated, this single-volume reference provides complete guidance on the interpretation of MRIs and MRAs. Organized by anatomic system, it focuses on the disease entities commonly encountered in practice. Concise discussions explain which MRIs are appropriate for each clinical indication o how to look at MRIs o and how to make an accurate diagnosis based on the findings. More than 1500 images of the highest quality illustrate how disease presents on the MRI. Provides practical guidance for clinical magnetic resonance imaging. Features brief discussions of imaging technique followed by in-depth coverage of clinical interpretation, in short concise chapters. Uses clinical cases to illustrate discussions of common clinical entities as they present on MRIs. Presents more than 1500 images of the highest quality that feature MRI examples of disease. Offers full-chapter coverage of both contrast media and contrast enhanced magnetic resonance angiography (MRA).

Clinical Imaging Physics: Current and Emerging Practice is the first text of its kind—a comprehensive reference work covering all imaging modalities in use in clinical medicine today. Destined to become a classic in the field, this book provides state-of-practice descriptions for each imaging modality, followed by special sections on new and emerging applications, technologies, and practices. Authored by luminaries in the field of medical physics, this resource is a sophisticated, one-volume handbook to a fast-advancing field that is becoming ever more central to contemporary clinical medicine. Summarizes the current state of clinical imaging physics in one-volume, with a focus on emerging technologies and applications Provides comprehensive coverage of all key clinical imaging modalities, taking into account the new realities in healthcare practice Features a strong focus on clinical application of principles

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and technology, now and in the future Contains authoritative text compiled by world-renowned editors and contributors responsible for guiding the development of the field Practicing radiologists and medical physicists will appreciate Clinical Imaging Physics as a peerless everyday reference work. Additionally, graduate students and residents in medical physics and radiology will find this book essential as they study for their board exams.

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