

Mri Made Easy

British Medical Association Book Awards
2009 - First Prize Winner, Radiology
Category Featuring a practical, clinical
approach - and written in a quick-access
style - this portable, economical
reference helps you build a strong
foundation in chest x-ray interpretation.
Three radiologists with years of clinical
and teaching experience present
fundamental principles and key anatomical
concepts...walk you through examples of

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classic chest x-ray features that provide subtle evidence of abnormality...and explore a variety of problems and dilemmas common to everyday clinical practice. High-quality drawings and digital chest x-rays - combined with secrets from the radiologists' toolbox, helpful differential diagnoses, handy checklists, and key references - deliver all the assistance you need to enhance your interpretation skills. Provides a strong foundation of essential knowledge for an informed, systematic approach to accurate

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chest x-ray interpretation. Features the work of three radiologists who offer you the benefit of their many years of clinical and teaching experience.

Emphasizes common errors and misdiagnoses to help ensure correct image readings.

Presents step-by-step guidance in a bulleted, quick-access format, in short chapters focused on clinical problems, to make it easy to master the information that you need to know. Makes difficult anatomic concepts easier to grasp by pairing radiographs with color line

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drawings. Explains the nomenclature special to the field through a glossary of important terms. Highlights the most important concepts in diagnosis/interpretation via Key Points in each chapter.

Packed with information on the practical aspects of MRI, this user-friendly text covers everything from advice on optimal positioning of patients to recommendations for setting the appropriate scanning parameters. Each consistently organized chapter follows the chronology of a

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standard procedure - the authors present essential information on preparation and necessary materials first. Then they skilfully guide the readers through special considerations in positioning and coil selection, protocols for conducting the exam, examples of various sequences, and possible modifications. Numerous tips, tricks, and pointers explain how to avoid potential complications. Highlights of the second edition: 340 high-quality MRI scans and anatomical drawings New and expanded sections on MR angiography of pulmonary

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arteries and pelvic and leg vessels; the CARE Bolus Technique; whole-body MRI; and more Information on the latest protocols for MR urography, cholangiography, and colonography Consistent chapter structure for maximum accessibility on the job and at the MRI workstation Each section contains plenty of space on each page for personal notes A guide to the most important MRI studies, the second edition of MRI Parameters and Positioning is an indispensable companion for all radiologists, radiology residents, and

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radiologic technologists.

The overall goal of this book is to promote research and development of imaging and radioanalytical techniques by publishing high-quality chapters in this rapidly growing interdisciplinary field. This book discusses the principles and applications of imaging and radioanalytical techniques across a wide spectrum of interdisciplinary science, technology and medicine, where these techniques are expected to make significant difference and contribution.

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It also explores the history of the field, current trends, and future directions. The book focuses mainly on cutting-edge applications, and associated equipments and methods, such as instrumentation systems and computing hardware/software. The primary target audience for this book includes students, researchers, clinicians, and professionals who are interested in medical and ground penetrating radar (GPR) imaging, and radioanalytical techniques. Ideal for residents, practicing

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radiologists, and fellows alike, this updated reference offers easy-to-understand guidance on how to approach musculoskeletal MRI and recognize abnormalities. Concise, to-the-point text covers MRI for the entire musculoskeletal system, presented in a highly templated format. Thoroughly revised and enhanced with full-color artwork throughout, this resource provides just the information you need to perform and interpret quality musculoskeletal MRI. Includes the latest protocols, practical advice, tips, and

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pearls for diagnosing conditions impacting the temporomandibular joint, shoulder, elbow, wrist/hand, spine, hips and pelvis, knee, and foot and ankle. Follows a quick-reference format throughout, beginning with basic technical information on how to obtain a quality examination, followed by a discussion of the normal appearance and the abnormal appearance for each small unit that composes a joint. Depicts both normal and abnormal anatomy, as well as disease progression, through more than 600 detailed, high-quality images, most of

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which are new to this edition. Features key information boxes throughout for a quick review of pertinent material.

Imaging and Radioanalytical Techniques in Interdisciplinary Research

MRI Physics

Cardiac CT Made Easy

MRI-Guided Focused Ultrasound Surgery

Electromagnetics in Magnetic Resonance Imaging

Obtaining and interpreting images of the heart is critical to the successful management of any cardiac

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disorders. Several imaging modalities are used to help cardiologists correctly diagnose these disorders and initiate the most appropriate form of treatment. Since the first publication of this book, the use of cardiovascular CT imaging has increase

This book is a practical guide to the latest radiology techniques for the diagnosis of disorders of the abdomen and pelvis. Beginning with an overview of anatomy of the abdomen and pelvis, and a chapter explaining the features of children's abdomens, the following sections cover the radiological aspects of different parts of the abdomen - gastrointestinal tract

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hepatobiliary system, pancreas, renal system, adrenals, and retroperitoneum. The final chapters discuss imaging techniques for male reproductive organs, and for diagnosing obstetrics and gynaecological disorders. The text covers various imaging techniques - ultrasound, MRI, CT, X-Ray - and is highly illustrated with radiological images, diagrams and tables to enhance learning. Common exam questions are included to assist revision. Key Points Practical guide to latest radiological techniques for diagnosis of abdominal and pelvic disorders Covers various technologies and all parts

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of the abdomen Includes imaging techniques for male reproductive organs and obstetrics and gynaecological disorders Features common exam questions to assist revision

This cross-disciplinary book documents the key research challenges in the mathematical sciences and physics that could enable the economical development of novel biomedical imaging devices. It is hoped that the infusion of new insights from mathematical scientists and physicists will accelerate progress in imaging. Incorporating input from dozens of biomedical researchers who described what they

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perceived as key open problems of imaging that are amenable to attack by mathematical scientists and physicists, this book introduces the frontiers of biomedical imaging, especially the imaging of dynamic physiological functions, to the educated nonspecialist. Ten imaging modalities are covered, from the well-established (e.g., CAT scanning, MRI) to the more speculative (e.g., electrical and magnetic source imaging). For each modality, mathematics and physics research challenges are identified and a short list of suggested reading offered. Two additional chapters offer visions of the next

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generation of surgical and interventional techniques and of image processing. A final chapter provides an overview of mathematical issues that cut across the various modalities.

This pictorial instructional pocket guide, derived from Cardiovascular MRI Tutorial, is a quick reference for MRI technologists, technologist trainees, and radiology or cardiology residents or fellows. Routine cardiac imaging protocols are presented in step-by-step fashion for immediate reference during an MRI examination. Each chapter displays a specific protocol from start to finish, including positioning,

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anatomy, and sequence terminology, with easy-to-follow illustrative images. Coverage includes protocols for cardiac function; cardiac function/viability; cardiac function/non-ischemic viability; arch; arrhythmogenic right ventricular dysplasia/cardiomyopathy (ARVD/C); pulmonary vein electrophysiology (EP) ablation; constrictive pericarditis; atrial or ventricular septal defect (ASD or VSD); anomalous coronaries; and cardiac thalassemia.

A Definitive Guide for Medical Professionals
A Step by Step Approach

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The Basics

MRI from A to Z

The Radiology Handbook

Magnetic Resonance Imaging is a very important clinical imaging tool. It combines different fields of physics and engineering in a uniquely complex way. MRI is also surprisingly versatile, 'pulse sequences' can be designed to yield many different types of contrast. This versatility is unique to MRI. This short book gives both an in depth account of the methods used for the operation and construction of modern MRI

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systems and also the principles of sequence design and many examples of applications. An important additional feature of this book is the detailed discussion of the mathematical principles used in building optimal MRI systems and for sequence design. The mathematical discussion is very suitable for undergraduates attending medical physics courses. It is also more complete than usually found in alternative books for physical scientists or more clinically orientated works.

A highly illustrated account of modern radiology suitable for medical students and junior doctors.

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Essentials of Body MRI extensively covers the field, offering clear and detailed guidance on MRI as an invaluable tool for the primary diagnosis and problem solving of diseases of the body, including the abdomen, liver, pancreas, pelvis, heart, urinary tract, and great vessels. The beginning chapters focus on the physics, pulse sequences, and other practical considerations related to body MR imaging, explained in an easy to understand way, to help the reader fully comprehend the imaging appearance of clinical disease. The remaining chapters discuss clinical applications, with topics

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spanning from the normal anatomic structures and diagnosis of abdominal, pelvic, cardiac, and vascular diseases to the modality's role as a tool for solving diagnostic problems. The key points of each chapter are boxed as Essentials to Remember for rapid review and learning. Written in clear, accessible text, and featuring 887 figures and numerous tables, Essentials of Body MRI is a resource that radiology residents, fellows, and anyone else who wants to learn about Body MRI, will turn to again and again. MRI in Practice continues to be the number one reference book and study guide for the registry

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review examination for MRI offered by the American Registry for Radiologic Technologists (ARRT). This latest edition offers in-depth chapters covering all core areas, including: basic principles, image weighting and contrast, spin and gradient echo pulse sequences, spatial encoding, k-space, protocol optimization, artefacts, instrumentation, and MRI safety. The leading MRI reference book and study guide. Now with a greater focus on the physics behind MRI. Offers, for the first time, equations and their explanations and scan tips. Brand new chapters on MRI equipment, vascular imaging

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and safety. Presented in full color, with additional illustrations and high-quality MRI images to aid understanding. Includes refined, updated and expanded content throughout, along with more learning tips and practical applications. Features a new glossary. MRI in Practice is an important text for radiographers, technologists, radiology residents, radiologists, and other students and professionals working within imaging, including medical physicists and nurses.

Assessment of Cellular and Organ Function and Dysfunction using Direct and Derived MRI

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Methodologies

*An Introduction to Cardiovascular Multidetector
Computed Tomography, Second Edition*

Essentials of Body MRI

*Questions & Answers in Magnetic Resonance
Imaging*

MRI Spine in Low Backache Made Easy

MRI techniques have been recently introduced for non-invasive qualification of regional myocardial mechanics, which is not achievable with other imaging modalities.

Covering more than twenty-three years of developments in MRI techniques for accessing heart mechanics, this book provides a plethora of techniques and concepts that assist

readers choose the best technique for their purpose. It reviews research studies and clinical trials that implemented MRI techniques for studying heart mechanics.

MRI from Picture to Proton presents the basics of MR practice and theory in a unique way: backwards! The subject is approached just as a new MR practitioner would encounter MRI: starting from the images, equipment and scanning protocols, rather than pages of physics theory. The reader is brought face-to-face with issues pertinent to practice immediately, filling in the theoretical background as their experience of scanning grows. Key ideas are introduced in an intuitive manner which is faithful to the

underlying physics but avoids the need for difficult or distracting mathematics. Additional explanations for the more technically inquisitive are given in optional secondary text boxes. The new edition is fully up-dated to reflect the most recent advances, and includes a new chapter on parallel imaging. Informal in style and informed in content, written by recognized effective communicators of MR, this is an essential text for the student of MR.

Magnetic resonance imaging (MRI) is a type of scan used to diagnose health conditions that affect organs, tissue and bone. MRI scanners use strong magnetic fields and radio waves to produce detailed images of the inside of the body.

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Divided into two sections, this concise guide introduces radiology trainees to the principles, sequences and interpretation of MRI. The first section describes the basic principles, instrumentation and interpretation of MRI, whilst the second section discusses the higher applications of the technique. Authored by Canadian radiologist Govind Chavhan, this second edition includes 250 images and illustrations, as well as a photo CD, to assist trainees with learning. Key points New edition introducing radiology trainees to principles, sequences and interpretation of MRI Authored by Canadian radiology specialist Features 250 images and illustrations Includes photo CD First edition published in 2007

Radiology though being restricted to only analyzing images, carries a greater depth to it in encompassing all the forms and fields of medicine from embryology, pathology to treatment and its response. The importance of radiology in the present set-up is very high and no patient work-up is complete without a radiological investigation. Quantitative and qualitative perspectives have always been the two sides of a coin in radiology. Both have been synergistic to each other in not only identifying the lesion, characterizing it but also in guiding effective planning of management, its execution and follow-up. The role of measurements so plays a more integral part at all these levels. Measurements also provide a distinct sense of accuracy and specificity in

aiding diagnosis. The experience of taking various measurements in radiology during my postgraduate days made me realize the need for handbook in simple, concise, tabular and diagrammatic format to facilitate the easy and fast reporting of various cases by radiologists. Data contained in this book is compiled from various standard radiology textbooks (refer Bibliography), journals and Internet over the years since my postgraduate days, this will be companion to standard textbooks.

Musculoskeletal MRI E-Book

Heart Mechanics

The Basic Concepts of MRI Physics Made Easy (LJ Notes)

MRI: The Basics

The Chest X-Ray: A Survival Guide E-Book

Cardiovascular Magnetic Resonance (CMR) is well established in clinical practice for the diagnosis and management of a wide array of cardiovascular diseases. This expertly written source offers a wealth of information on the application and performance of CMR for diagnosis and evaluation of treatment.

Fundamentals of Body MRI—a new title in the Fundamentals of Radiology series—explains and defines key concepts in body MRI so you can confidently make radiologic diagnoses. Dr. Christopher G. Roth presents comprehensive guidance on body imaging—from the liver to the female pelvis—and discusses how physics, techniques, hardware, and artifacts affect results. This detailed and heavily illustrated reference will help you effectively master the complexities of interpreting findings from this imaging modality. Master MRI

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techniques for the entirety of body imaging, including liver, breast, male and female pelvis, and cardiovascular MRI. Avoid artifacts thanks to extensive discussions of considerations such as physics and parameter tradeoffs. Grasp visual nuances through numerous images and correlating anatomic illustrations.

Despite the tremendous growth in the field of magnetic resonance imaging (MRI) evidenced in the initial phases of its development in the early twentieth century, scientific focus has shifted in recent years toward the study of physiology and pathophysiology that span the spatial scales of the molecule, cell, tissue, and organ. Intensified research activities over the past 15 years have justified efforts toward molecular and cellular imaging, dual-modality imaging systems, real-time acquisitions, dedicated image processing techniques and applications, and the critical evaluation of their potential translational

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value for use in the clinic. The integrative focus on molecular-cellular-tissue-organ function and dysfunction has taken a primary role in modern, personalized medicine, and it is envisaged to continue to do so, as accumulated knowledge from basic and clinical science work continues to elucidate molecular, cellular, and physiological/pathophysiological pathways and mechanisms. In this scientific effort, MRI continues to play a critical and synergistic role from the perspectives of basic science, diagnosis, and clinical interventional/therapeutic approaches. Within the realm of the current role of MRI in modern medicine, this book summarizes state-of-the-art direct and derived MRI methodologies and approaches as applied toward the assessment of cellular and organ function and dysfunction. The contributions in this effort are not excessive but few, comprehensive, and distinguished and of high quality. The topic areas

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can be generalized to find applications in other scientific areas and span both brain and cardiac applications, extending interest to wider audiences.

Now in its updated Third Edition, MRI: The Basics is an easy-to-read, clinically relevant introduction to the physics behind MR imaging. The book features large-size, legible equations, state-of-the-art images, instructive diagrams, and questions and answers that are ideal for board review. The American Journal of Radiology praised the previous edition as "an excellent text for introducing the basic concepts to individuals interested in clinical MRI." This edition spans the gamut from basic physics to multi-use MR options to specific applications, and has dozens of new images. Coverage reflects the latest advances in MRI and includes completely new chapters on k-space, parallel imaging, cardiac MRI, and MR spectroscopy.

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MRI Made Easy (for Beginners)

MRI Parameters and Positioning

Atlas of Human Anatomy on CT Imaging

Cardiac MRI: Guide Book on the Go

Understanding Magnetic Resonance Imaging

This second edition of Gary Liney's MRI from A-Z, much expanded from the first edition, is both a reflection of and an apt companion for the dramatic growth of the field of MRI. The MRI-trainee to the most seasoned practitioner in MRI will find this A-Z of the field, with 1,300 entries and 100 illustrations, an indispensable reference tool. Providing the reader with concise, clear and eloquent definitions of MRI terminology, this book is both highly

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practical and a pleasure to read.

Magnetic Resonance Imaging (MRI) is among the most important medical imaging techniques available today. There is an installed base of approximately 15,000 MRI scanners worldwide. Each of these scanners is capable of running many different "pulse sequences", which are governed by physics and engineering principles, and implemented by software programs that control the MRI hardware. To utilize an MRI scanner to the fullest extent, a conceptual understanding of its pulse sequences is crucial. Handbook of MRI Pulse Sequences offers a complete guide that can help the scientists, engineers, clinicians, and technologists in the field of MRI

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understand and better employ their scanner. Explains pulse sequences, their components, and the associated image reconstruction methods commonly used in MRI Provides self-contained sections for individual techniques Can be used as a quick reference guide or as a resource for deeper study Includes both non-mathematical and mathematical descriptions Contains numerous figures, tables, references, and worked example problems

Dette er en grundlæggende lærebog om konventionel MRI samt billedteknik. Den begynder med et overblik over elektricitet og magnetisme, herefter gives en dybtgående forklaring på hvordan MRI fungerer og her

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diskuterer de seneste metoder i radiografisk billedtagning, patientsikkerhed m.v.

This title provides an easily digestible and portable synopsis of the technique which will suit the needs of cardiologists and cardiothoracic surgeons wishing to acquaint themselves with what CMR can do, and what it cannot. Beginning with an outline of some of the basic principles of MRI, the following chapters concentrate on the cardiac side of CMR with a later section on its more established vascular uses.

Magnetic Resonance Imaging

Tech to Tech Explanations

Handbook of Cardiovascular Magnetic Resonance

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Imaging

Handbook of MRI Pulse Sequences

In the past few decades, Magnetic Resonance Imaging (MRI) has become an indispensable tool in modern medicine, with MRI systems now available at every major hospital in the developed world. But for all its utility and prevalence, it is much less commonly understood and less readily explained than other common medical imaging techniques. Unlike optical, ultrasonic, X-ray (including CT), and nuclear medicine-based imaging, MRI does not rely

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primarily on simple transmission and/or reflection of energy, and the highest achievable resolution in MRI is orders of magnitude smaller than the smallest wavelength involved. In this book, MRI will be explained with emphasis on the magnetic fields required, their generation, their concomitant electric fields, the various interactions of all these fields with the subject being imaged, and the implications of these interactions to image quality and patient safety. Classical electromagnetics will be used to describe aspects from the fundamental phenomenon of nuclear precession through signal

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detection and MRI safety. Simple explanations and Illustrations combined with pertinent equations are designed to help the reader rapidly gain a fundamental understanding and an appreciation of this technology as it is used today, as well as ongoing advances that will increase its value in the future. Numerous references are included to facilitate further study with an emphasis on areas most directly related to electromagnetics.

The book includes chapters on MRI Physics, Patient preparation, four glossaries and head to foot instructions on how to perform an MRI scan. The

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handbook is geared to the practicing MRI technologist and student MRI technologists. The handbook was written as training tool for the student MRI technologist and as a reference handbook for the practicing MRI Technologist. The book is not a textbook, but rather a daily reference tool to supplement a bona-fide course of study along with an appropriate amount of clinical training. It is expected that practicing MRI technologists can use this handbook well after a training program is completed. The approach is quite practical in that an individual with

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appropriate clinical experience can perform scans of any anatomy. It is comprehensive in that it takes into account virtually every MRI examination performed. The handbook depends on illustrations to convey the subject matter. The images used are actual images from MRI examinations which demonstrate anatomy and illustrate the desired outcome of an MRI examination. Color illustrations are provided for diagrams. The main feature of the handbook is in its approach to the material. The handbook begins with preliminary sections. Sections on scanning using a step-by-step "Cook

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Book" approach, from the tools to use, the landmarks to identify and the protocols to be used follow, and are the crux of the handbook. The Illustrations bring it all together so that the reader can identify the expected end result.

The newest title in the popular Case Review Series, Duke Review of MRI Principles, by Wells Mangrum, MD; Kimball Christianson, MD; Scott Duncan, MD; Phil Hoang, MD; Allen W. Song, PhD; and Elmar Merkle, MD, uses a case-based approach to provide you with a concise overview of the physics behind magnetic resonance imaging (MRI). Written by

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radiology residents, practicing radiologists, and radiology physicists, this multidisciplinary text introduces you to the basic physics of MRI and how they apply to successful and accurate imaging, interpretation, and diagnosis. Clinically relevant cases with associated questions and images reinforce your understanding of essential principles needed to confidently interpret a wide range of MRI images for all organ systems. Review the basic physics of MRI in a concise, high-yield manner and learn how to apply them for successful and accurate imaging, interpretation, and diagnosis.

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Master 17 essential MRI principles you need to know through clinically relevant cases accompanied by associated questions and 600 images that reinforce your understanding and help you confidently interpret a wide range of MRI images. Effectively diagnose disease in all organ systems. Authors are fellowship-trained in each body system - neuro, breast, body, vascular and MSK, providing you with practical guidance in every area Focus on the information that's most relevant to your needs from a multidisciplinary author team comprised of radiology residents, practicing

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radiologists and radiology physicists. See the underlying simplicity behind MRI physics. Despite employing the same MRI principles, similar imaging systems use slightly different names. A simplified explanation of these principles and how they are applied to each body system deepens your understanding and helps avoid any confusion. All the MRI physics that the resident needs to understand to comfortably interpret MRI

Designed for busy medical students, The Radiology Handbook is a quick and easy reference for any practitioner who needs information on ordering or

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interpreting images. The book is divided into three parts: - Part I presents a table, organized from head to toe, with recommended imaging tests for common clinical conditions. - Part II is organized in a question and answer format that covers the following topics: how each major imaging modality works to create an image; what the basic precepts of image interpretation in each body system are; and where to find information and resources for continued learning. - Part III is an imaging quiz beginning at the head and ending at the foot. Sixty images are provided to self-test knowledge about

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normal imaging anatomy and common imaging pathology. Published in collaboration with the Ohio University College of Osteopathic Medicine, The Radiology Handbook is a convenient pocket-sized resource designed for medical students and non radiologists.

Mathematics and Physics of Emerging Biomedical Imaging

A Pocket Guide to Medical Imaging

Fundamentals and Cutting Edge Applications

Physical Principles, Related Applications, and Ongoing Developments

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MRI Layman's Terms

The popular QUESTIONS AND ANSWERS IN MAGNETIC RESONANCE IMAGING is thoroughly revised and updated to reflect the latest advances in MRI technology. Four new chapters explain recent developments in the field in the traditional question and short answer format. This clear, concise and informative text discusses hundreds of the most common questions about MRI, as well as some challenging questions for

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seasoned MRI specialists.

MRI-Guided Focused Ultrasound Surgery will be the first publication on this new technology, and will present a variety of current and future clinical applications in tumor ablation treatment. This source helps surgeons and specialists evaluate, analyze, and utilize MRI-guided focused ultrasound surgery - bridging the gap between phase 3 clinical tr

This handbook is a concise practical

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guide for residents and general radiologists that will offer reliable assistance during the performance and reporting of multidetector row computed tomography and magnetic resonance imaging in patients with Liver Bile Ducts and Pancreas conditions. It is organized alphabetically, primarily according to disease or condition, permitting easy and fast consultation. Entries typically include a short description of pathological and

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clinical characteristics, guidance on selection of the most appropriate imaging technique, a schematic review of potential diagnostic clues, and useful tips and tricks. Some helpful illustrations and schemes are also included. The book is the fourth in the new Springer handbook series, A-Z Notes in Radiological Practice and Reporting. Magnetic resonance imaging (MRI) is the most technically dependent imaging technique in radiology. To perform and

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interpret MRI studies correctly, an understanding of the basic underlying principles is essential. Understanding Magnetic Resonance Imaging explains the pulse sequences, imaging options, and coils used to produce MR images, providing a strong foundation for performing and interpreting imaging studies. The text is complemented by more than 100 figures and 25 photomicrographs illustrating the techniques discussed. Radiology

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residents, MR technologists, and radiologists should not be without Understanding Magnetic Resonance Imaging—the only single resource that explains all technical aspects of MRI, including recent advances, and presents all imaging options.

Cardiovascular Magnetic Resonance Made Easy E-Book

MDCT and MRI of the Liver, Bile Ducts and Pancreas

Fundamentals of Body MRI E-Book

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*Textbook of Radiology-Abdomen and Pelv
MRI in Practice*

MRI has emerged as a powerful way of studying in-vivo brain structure and function in both healthy and disease states. Whilst new researchers may be able to call upon advice and support for acquisition from operators, radiologists and technicians, it is more challenging to obtain an understanding of the principles of analysing neuroimaging data. This is

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crucial for choosing acquisition parameters, designing and performing appropriate experiments, and correctly interpreting the results. This primer gives a general and accessible introduction to the wide array of MRI-based neuroimaging methods that are used in research. Supplemented with online datasets and examples to enable the reader to obtain hands-on experience working with real data, it provides a practical and

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approachable introduction for those new to the neuroimaging field. The text also covers the fundamentals of what different MRI modalities measure, what artifacts commonly occur, the essentials of the analysis, and common "pipelines" including brain extraction, registration and segmentation. As it does not require any background knowledge beyond high-school mathematics and physics, this primer is essential reading for anyone wanting to

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work in neuroimaging or grasp the results coming from this rapidly expanding field. The Oxford Neuroimaging Primers are short texts aimed at new researchers or advanced undergraduates from the biological, medical or physical sciences. They are intended to provide a broad understanding of the ways in which neuroimaging data can be analyzed and how that relates to acquisition and interpretation. Each primer has been written so that it is a

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stand-alone introduction to a particular area of neuroimaging, and the primers also work together to provide a comprehensive foundation for this increasingly influential field.

MRI PHYSICS MRI PHYSICS TECH TO TECH EXPLANATIONS Technologists must have a solid understanding of the physics behind Magnetic Resonance Imaging (MRI), including safety, the hows and whys of the quantum physics of the MR phenomenon, and how to competently

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operate MRI scanners. Generating the highest quality images of the human body involves thorough knowledge of scanner hardware, pulse sequences, image contrast, geometric parameters, and tissue suppression techniques. MRI Physics: Tech to Tech Explanations is designed to help student MRI technologists and radiotherapists preparing for Advanced MRI certification examinations to better understand difficult concepts and

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topics in a quick and easy manner. Written by a highly experienced technologist, this useful guide provides clear and reader-friendly coverage of what every MR Technologist needs to know. Topics include safety considerations associated with the magnetic field and RF, pulse sequences, artifacts, MRI math, the much-feared gradients, and I.V. contrast. Provides basic guidance on safety considerations, protocols options,

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critical thinking, and image contrast optimization Simplifies the challenging topic of MRI physics using straightforward language and clear explanations Covers content for American Registry of Radiologic Technologists (ARRT) and Continuing Qualifications Requirements (CQR) exams Features numerous illustrations and photographs of various MRI concepts, pulse sequence design, artifacts, and the application of concepts in clinical

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settings MRI Physics: Tech to Tech Explanations is a must-have resource for the experienced and training MRI technologist, medical students, and radiology residency rotations.

Measurements in Radiology Made Easy®

MRI Made Easy (... Well Almost)

MRI from Picture to Proton

MRI Made Easy

Magnetic Resonance Imaging—Mathematical Modeling, Pulse Sequences, and Image Analysis