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It includes topics ranging from magnetism to safety, K space to pulse sequences, and image contrast to artefacts. This third edition has been

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fully updated, with revised diagrams and new pedagogy, including 55 key points, tables, scan tips, equations, and learning points.

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Handbook of MRI Technique continues to be the ideal support both for radiographers new to MRI and for

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Handbook of MRI Technique:

Westbrook, Catherine ...

Description: This MRI handbook is divided into two main sections covering practical concepts of MRI and examination. The previous edition was published in 1999. Purpose: The purpose is to outline scanning techniques and protocols in MRI and to provide a step-by-step guide to imaging every part of the body. The book is a must for technologists studying for the MRI Registry.

Now entering its fourth edition, the market-leading Handbook of MRI Technique has been fully revised and updated to incorporate new technologies and developments essential to good practice. Written

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Especially for technologists and highly illustrated, it guides the uninitiated through scanning techniques and helps more experienced technologists to improve image quality. The first part of the book considers the main aspects of theory that relate to scanning and also includes practical tips on gating, equipment use, patient care and safety, and information on contrast media. The second half provides step-by-step instruction for examining each anatomical area, beginning with a basic anatomy section followed by sections on indications, patient positioning, equipment, artefacts and tips on optimizing image quality. Written by an international team of technologists from the United States, United Kingdom and Europe Suitable for users for all types of MRI systems

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Now includes key points throughout for quick reference Companion website at www.wiley.com/go/westbrook/mritechnique with self-assessment and image flashcards Handbook of MRI Technique continues to be the ideal support both for radiographers new to MRI and for regular users looking for information on alternative techniques and suggestions on protocol modifications.

HANDBOOK OF MRI TECHNIQUE
FIFTH EDITION Distinguished
educator Catherine Westbrook
delivers a comprehensive and intuitive
resource for radiologic technologists in
this newly revised Fifth Edition of the
Handbook of MRI Technique. With a
heavy emphasis on protocol

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optimisation and patient care, the book guides the uninitiated through scanning techniques and assists more experienced technologists with image quality improvement. The new edition includes up-to-date scanning techniques and an additional chapter on paediatric imaging. The latest regulations on MRI safety are referenced and there are expanded sections on slice prescription criteria. The book also includes the contributions of several clinical experts, walking readers through key theoretical concepts, discussing practical tips on cardiac gating, equipment use, patient care, MRI safety, and contrast media. Step-by-step instruction is provided on scanning each anatomical area, complete with patient positioning and image quality optimisation techniques.

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The book includes: A thorough introduction to the concepts of parameters and trade-offs, as well as pulse sequences, flow phenomena, and artefacts Comprehensive explorations of cardiac gating and respiratory compensation techniques, patient care and safety, contrast agents, and slice prescription criteria Practical discussions of a wide variety of examination areas, including the head and neck, spine, chest, abdomen, pelvis, the upper and lower limbs, and paediatric imaging A companion website with self-assessment questions and image flashcards Perfect for radiography students and newly qualified practitioners, as well as practitioners preparing for MRI-based certification and examination, the Handbook of MRI Technique will also prove to be an

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invaluable addition to the libraries of students in biomedical engineering technology and radiology residents.

Ensure high-quality diagnostic images with this practical scanning reference! Designed to help you plan and acquire MRI images, Handbook of MRI Scanning, by Geraldine Burghart and Carol Ann Finn, includes the step-by-step scanning protocols you need to produce optimal images. Coverage of all body regions prepares you to perform virtually any scan. Going beyond the referencing and recognition of three-plane, cross-sectional anatomy, each chapter demonstrates appropriate slice placements, typical midline images of each plane, and detailed line drawings of the pertinent anatomy corresponding to the midline images.

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With this handbook, you can conceptualize an entire scan and its intended outcome prior to performing the scan on a patient. Keep the book at your console -- it's ideal for quick reference! Consistent, clinically based layout of the sections makes scanning information easy to use with three images per page to demonstrate clinical sequences in MRI examinations. Handy, pocket size offers easy, immediate access right at the console. 600 images provide multiple views and superb anatomic detail. Suggested technical parameters are provided in convenient tables for quick reference with space to write in site-specific protocols or equipment variations.

Students of radiology and radiography at both undergraduate and

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postgraduate level often experience difficulty in learning MRI techniques. This book provides concise, easily accessible information on MRI physics which can be used as a revision tool. Topics covered include relaxation processes, image contrast, pulse sequences, image production, image quality, artefacts, MRA, instrumentation and safety. Double page spreads for each section will contain a diagram and/or image depicting the main concepts of MR physics together with a succinct account of the topic in bullet points and tables.

MRI in Practice continues to be the number one reference book and study guide for the registry review examination for MRI offered by the American Registry for Radiologic

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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 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

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Practice is an important text for radiographers, technologists, radiology residents, radiologists, and other students and professionals working within imaging, including medical physicists and nurses.

Neuroimaging, Part One, a text from The Handbook of Clinical Neurology illustrates how neuroimaging is rapidly expanding its reach and applications in clinical neurology. It is an ideal resource for anyone interested in the study of the nervous system, and is useful to both beginners in various related fields and to specialists who want to update or refresh their knowledge base on neuroimaging. This first volume specifically covers a description of imaging techniques used in the adult brain, aiming to bring a comprehensive view of the field of

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neuroimaging to a varying audience. It brings broad coverage of the topic using many color images to illustrate key points. Contributions from leading global experts are collated, providing the broadest view of neuroimaging as it currently stands. For a number of neurological disorders, imaging is not only critical for diagnosis, but also for monitoring the effect of therapies, and the entire field is moving from curing diseases to preventing them. Most of the information contained in this volume reflects the newness of this approach, pointing to this new horizon in the study of neurological disorders. Provides a relevant description of the technologies used in neuroimaging, including computed tomography (CT), magnetic resonance imaging (MRI), positron emission tomography (PET), and several others Ideal resource for

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anyone studying the nervous system, from beginners to specialists interested in recent advances in neuroimaging of the adult brain Discusses the application of imaging techniques to the study of brain and spinal cord disease and its use in various syndromes Contains vibrant, colorful images to illustrate key points

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

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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.

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

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step-by-step fashion for immediate reference during an MRI examination. Each chapter displays a specific protocol from start to finish, including positioning, 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.

This indispensable guide gives concise yet comprehensive descriptions of the pulse sequences commonly used on modern MRI

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5th Edition. The book consists of a total of 65 self-contained sections, each focused on a single subject. Written primarily for scientists, engineers, radiologists, and graduate students who are interested in an in-depth understanding of various MRI pulse sequences, it serves readers with a diverse set of backgrounds by providing both non-mathematical and mathematical descriptions. The book is divided into five parts. Part I of the book describes two mathematical tools, Fourier transforms and the rotating reference frame, that are useful for understanding MRI pulse sequences. The second part is devoted to a wide variety of radiofrequency (RF) pulses, and the third part focuses on gradient waveforms. Data acquisition, image reconstruction, and physiological

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monitoring related to pulse sequence design form the subject of Part IV of the book. Once this foundation is established, Part V of the book describes the underlying principles, implementation, and selected applications of many pulse sequences commonly in use today. The extensive topic coverage and cross-referencing makes this book ideal for beginners learning the building blocks of MRI pulse sequence design, as well as for experienced professionals who are seeking deeper knowledge of a particular technique.

- 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

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