

{EBOOK} Magnetic Resonance Imaging Pomona College

Peter Reimer,Paul M. Parizel,Falko-Alexander Stichnoth

Magnetic Resonance in Medicine Peter Rinck,2001-05-15 The intention of this book is to provide the reader with a fundamental understanding of magnetic resonance (MR) imaging. Readers should be able to acquire a fundamental knowledge that enables them to pursue studies of their own and to cope with some of the most common problems, such as image contrast and artifacts or questions concerning possible hazards to patients. The first edition of this book was published in 1984 as the primer for European Magnetic Resonance Forum to teach the basics and some of the applications of MR imaging and MR spectroscopy. Many organizers of other teaching courses and universities all over the world have found it valuable for their students. The public reaction to and the reviews of the last edition were extremely positive. The book is very popular with radiologists, cardiologists, medical students and radiographers, who all encouraged the author to revise it again. The text and all the figures have been completely revised and new chapters have been added. MR imaging not only requires knowledge of facts but also background information for decision-making. Therefore in this edition some subjective, critical, and opinion-oriented sections are included, intended to offset the technical nature of the book and provide insights into more practical questions faced by MR users. A new addition is the MR Image Expert CD-ROM, an interactive learning and teaching tool for MR. It simulates the most important aspects of MR imaging on a personal computer. Dynalize is the second application included. It allows the presentation and analysis of dynamic MR imaging studies.

Magnetic resonance imaging U.S. Department of Health and Human Services,

Microscopic Magnetic Resonance Imaging Luisa Ciobanu,2017-09-08 In the past two decades, significant advances in magnetic resonance microscopy (MRM) have been made possible by a combination of higher magnetic fields and more robust data acquisition technologies. This technical progress has enabled a shift in MRM applications from basic anatomical investigations to dynamic and functional studies, boosting the use of MRM in biological and life sciences. This book provides a simple introduction to MRM emphasizing practical aspects relevant to high magnetic fields. It focuses on biological applications and presents a number of selected examples of neuroscience applications. The text is mainly intended for those who are beginning research in the field of MRM or are planning to incorporate high-resolution MRI in their neuroscience studies.

Nuclear magnetic resonance imaging technology : a clinical, industrial, and policy analysis ,

Contrast-Enhanced Clinical Magnetic Resonance Imaging Val M. Runge,1997

Introduction to Functional Magnetic Resonance Imaging Richard B. Buxton,2002-01-07 Functional Magnetic Resonance Imaging (fMRI) is now a standard tool for mapping activation patterns in the human brain. This highly interdisciplinary field involves neuroscientists and physicists as well as clinicians who need to understand the rapidly increasing range, flexibility and sophistication of the techniques. In this book, Richard Buxton, a leading authority on fMRI, provides an invaluable introduction for this readership to how fMRI works, from basic principles and the underlying physics and physiology, to newer techniques such as arterial spin labeling and diffusion tensor imaging.

The Chemistry of Contrast Agents in Medical Magnetic Resonance Imaging André E. Merbach,Éva Tóth,2001-04-09 There has been a huge increase in the use of MRI and contrast agents in medicine in recent years as evidenced by a big increase in the number of hospitals with MRI machines and the ever-increasing number of examinations using contrast agents. Contrast agents have revolutionized the use of Magnetic Resonance Imaging (MRI) in medical diagnostics, allowing doctors to distinguish between normal and abnormal tissues and ultimately improving prognosis for the patient. This monograph covers all aspects of production, use, operating mechanisms and theory of these diagnostic agents, used to produce high contrast images in MRI. It will therefore be unique resource for what is currently a very active domain of research both in universities and in industry. The Chemistry of Contrast Agents in Medical Magnetic Resonance Imaging is a comprehensive treatise: * written by the most active scientists in the field of contrast agents for medical MRI - from both university and industrial backgrounds * covering the topic from every angle from synthesis to safety considerations * invaluable to physicists, chemists, biologists as well as physicians * the first in-depth coverage of this topic

Magnetic Resonance Imaging of the Body Jeffrey C. Weinreb,Helen C. Redman,1987-06-30 This outstanding volume in the AEDR series introduces the basic concepts and limitations of MRI. Features a helpful exercise/study format, and complete coverage of MRI techniques for areas such as the neck, chest, liver/spleen, abdomen, adrenals and kidneys, pelvis, retroperitoneum, soft tissues and skeleton, and much more!

MR-Guided Interventions, An Issue of Magnetic Resonance Imaging Clinics of North America 23-4, Clare M. Tempany,2016-01-07 Guest editors Claire Tempany and Tina Kapur review MR-Guided Interventions in this important issue in MRI Clinics of North America. Articles include: MR sequences and rapid acquisition for MR-guided interventions; MR-guided breast interventions: role in biopsy targeting and lumpectomies; MR-guided passive catheter tracking for endovascular therapy; MRgFUS update on clinical applications; MR-guided spine Interventions; MR-guided prostate biopsy; Interventional MRI Clinic: the Emory experience; MR-guided cardiac interventions; MR-guided functional neurosurgery; MR-guided active catheter tracking; MR-guided drug delivery; MR-guided thermal therapy for localized and recurrent prostate cancer; MR neurography for guiding nerve blocks and its role in pain management; MR-guided gynecologic brachytherapy;

and more!

Magnetic Resonance Imaging in Obstetrics and Gynaecology Martin C. Powell, Brian S. Worthington, E. Malcolm Symonds, 2013-10-22 Magnetic Resonance Imaging in Obstetrics and Gynecology focuses on the potential of magnetic resonance imaging (MRI) as a major imaging modality in the management of malignant diseases in the pelvis. This text is organized into two parts encompassing 11 chapters that provide images obtained by MRI in obstetrics and gynecology. Part one deals with the distinctive features of the normal uterus and vagina and those with carcinoma. It also presents the images of the benign disease and carcinomatous ovary. Part 2 considers images of the maternal anatomy, placenta, fetus, and the gestational trophoblastic neoplasia. This book is of great value to obstetricians, gynecologists, and MRI technicians.

Clinical MR Imaging Peter Reimer, Paul M. Parizel, Falko-Alexander Stichtnoth, 2003 Magnetic resonance imaging (MRI) has become the leading cross-sectional imaging method in clinical practice. Continuous technical improvements have significantly broadened the scope of applications. 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. The underlying idea is that, by adopting a practical protocol-based approach, the workflow in a MRI unit can be streamlined and optimized. For the second edition, all chapters have been thoroughly reviewed, and new techniques and figures were included. This book will help beginners to advance their starting point in implementing the protocols and will aid more experienced users in updating their knowledge.

Review Questions for MRI Carolyn Kaut Roth, William H. Faulkner, Jr., 2013-05-22 Magnetic Resonance Imaging (MRI) is the fastest growing modality in diagnostic imaging. There are now thousands of MRI facilities across the United States and around the world, employing huge numbers of technologists. The American Registry of Radiologic Technologists has, with the help of experts in the MRI and educational fields, devised a multiple choice examination that is intended to ensure that all technologists have the required level of knowledge to practice MRI safely and competently. Carolyn Kaut and William Faulkner, experts in the field of MRI education, have compiled this book to help students prepare for the registry examination. The questions follow the structure of the syllabus and are intended to help readers test their understanding of the subject and identify any gaps in their knowledge. The book is extremely comprehensive, covering all the aspects of the examination, including patient care and safety, imaging procedures, pulse sequences and data acquisition, and imaging artifacts and options.

Magnetic Resonance Imaging (MRI) for Technologist azmi banibaker, 2020-03-13

Magnetic Resonance Neuroimaging John Kucharczyk, A. James Barkovich, Michael Moseley, 1993-12-21 Magnetic Resonance Neuroimaging is a comprehensive volume that focuses on the newest fields of MRI from functional and metabolic

mapping to the latest applications of neuro-interventional techniques. Each chapter offers critical discussions regarding available methods and the most recent advances in neuroimaging, including such topics as the use of diffusion and perfusion MRI in the early detection of stroke, the revolutionary advent of high-speed MRI for non-invasively mapping cortical responses to task activation paradigms, and the principles and applications of contrast agents. The chapters also discuss how these new advances are applied to problems in patients ranging in age from the newborn to the elderly, as well as disease states ranging from metabolic encephalopathy to cardiovascular disorders and stroke. Magnetic Resonance Neuroimaging will be a valuable text/reference for residents, research fellows, and clinicians in radiology, neuroradiology, and magnetic resonance imaging.

Biophysical Measurement in Experimental Social Science Research Gigi Foster, 2019-02-08 Biophysical Measurement in Experimental Social Science Research: Theory and Practice demonstrates the use of biophysical measurement in laboratory-based experimental social science research and the ways biophysical measures can inform analyses of human behavior. Noting the practical limitations of laboratory-based biophysical measurement, its contributors provide hands-on guidance about biophysical measurement devices. Its Introductory and concluding chapters address ethics, measurement options, and historical and scientific contexts. Highlighting examples of device adoption in experimental social science lab settings, this book makes these tools understandable and accessible to all. Demonstrates the strengths and limitations of tools in both research objectives and practicality Provides hands-on guidance for device usage and data implementation, integration and assessment Compares and contrasts the uses of biophysical data in research objectives and disciplines

MRI Physics for Radiologists Alfred L. Horowitz, 2012-12-06 When this book was initially published three years ago, it was my goal to delineate the principles of magnetic resonance imaging in a format that could be understood without a sophisticated physics or mathematics background. That is still my goal. However, in the interim, it has become clear to me that many magnetic resonance techniques that we now routinely use are inadequately understood by many of us. Therefore, I have re-structured and expanded the book in the following way. There are now three main sections: of the sections one and two deal with the contrast and spatial characteristics image, as they did in the original text; and an additional section deals with various peripheral but significant magnetic resonance topics. Sections one and two still provide the meat of the material through the guise of the spin-echo pulse sequence; but section three goes beyond by explaining other pulse cycles and devices that are commonly used in today's imaging centers. To begin with, since fast scanning has now become a widely used technique, that chapter has been significantly expanded, and now includes a complete but non-mathematical explanation of what a gradient echo is and how fast scan images differ in principle from spin-echo images. Also, the applications of 3DFT and half-Fourier imaging are graphically covered without mathematical intervention.

MRI of the Newborn, Part 2, An Issue of Magnetic Resonance Imaging Clinics - E-Book Claudia M. Hillenbrand, Thierry A.

G. M. Huisman,2012-02-28 Vast experience has been gained over the past decade in safely transporting, monitoring, and imaging neonates, a highly vulnerable patient group. Technological advances in MRI hardware such as higher field strength systems, multi-channel coils, higher gradient performance, and MR compatible incubators with integrated antennae laid the ground for more detailed, higher resolution anatomical MR imaging. This issue provides separate reviews on the use of MR imaging in the evaluation of encephalopathy, postmortems, spinal dysraphia, and inflicted brain injury as well as neonatal neuro MR imaging and MR-guided cardiovascular interventions.

Magnetic Resonance Imaging (MRI) Quality Control Manual ,2001

MRI ,1996

Magnetic Resonance Imaging - E-Book Stewart C. Bushong,Geoffrey Clarke,2013-08-07 Magnetic Resonance Imaging: Physical and Biological Principles, 4th Edition offers comprehensive, well-illustrated coverage on this specialized subject at a level that does not require an extensive background in math and physics. It covers the fundamentals and principles of conventional MRI along with the latest fast imaging techniques and their applications. Beginning with an overview of the fundamentals of electricity and magnetism (Part 1), Parts 2 and 3 present an in-depth explanation of how MRI works. The latest imaging methods are presented in Parts 4 and 5, and the final section (Part 6) covers personnel and patient safety and administration issues. This book is perfect for student radiographers and practicing technologists preparing to take the MRI advanced certification exam offered by the American Registry of Radiologic Technologists (ARRT). I would recommend it to anyone starting their MRI training and anyone trying to teach MRI to others. Reviewed by RAD Magazine, June 2015 Challenge questions at the end of each chapter help you assess your comprehension. Chapter outlines and objectives assist you in following the hierarchy of material in the text. Penguin boxes highlight key points in the book to help you retain the most important information and concepts in the text. NEW! Two MRI practice exams that mirror the test items in each ARRT category have been added to the end of the text to help you replicate the ARRT exam experience. NEW! Chapter on Partially Parallel Magnetic Resonance Imaging increases the comprehensiveness of the text. NEW! Updated key terms have been added to each chapter with an updated glossary defining each term.

Differential Diagnosis in Magnetic Resonance Imaging Francis A. Burgener,Steven Meyers,Ray Tan,Wolfgang Zaunbauer,2011-01-01 Organized by findings to reflect how radiologists really work, this abundantly illustrated book offers more than 2,000 magnetic resonance images depicting commonly seen congenital and acquired disorders, as well as many rare and unusual cases. Along with the radiographic findings, you will enjoy brief tabular summaries of essential demographic, pathologic, and clinical features of each disease. The book is divided into anatomical sections, including: the brain; head and neck; spine; musculoskeletal system; chest; abdomen; and pelvis. All diseases and findings are cross-referenced, providing quick access to desired information. Special features: Chapters arranged by anatomic location instead

of by disease - mirroring the approach you apply in daily practice Hundreds of tables listing pathological features to assist in the diagnostic process Detailed descriptions allow you to differentiate between diseases and conditions that have similar appearances More than 2,000 state-of-the-art images, along with detailed diagrams and charts, give helpful examples of actual findings Extensive cross-referencing of information leads you to further resources Here is the quintessential guide to magnetic resonance imaging that radiologists and other physicians need to enhance their diagnostic skills. Residents and fellows will use it as an invaluable board preparation tool. Keep this practical text close at hand.

The Magnetic Resonance Imaging Scan ,1987

Quantitative Magnetic Resonance Imaging Nicole Seiberlich,Vikas Gulani,Adrienne Campbell-Washburn,Steven Sourbron,Mariya Ivanova Doneva,Fernando Calamante,Houchun Harry Hu,2020-12-10 Quantitative Magnetic Resonance Imaging is a 'go-to' reference for methods and applications of quantitative magnetic resonance imaging, with specific sections on Relaxometry, Perfusion, and Diffusion. Each section will start with an explanation of the basic techniques for mapping the tissue property in question, including a description of the challenges that arise when using these basic approaches. For properties which can be measured in multiple ways, each of these basic methods will be described in separate chapters. Following the basics, a chapter in each section presents more advanced and recently proposed techniques for quantitative tissue property mapping, with a concluding chapter on clinical applications. The reader will learn: The basic physics behind tissue property mapping How to implement basic pulse sequences for the quantitative measurement of tissue properties The strengths and limitations to the basic and more rapid methods for mapping the magnetic relaxation properties T1, T2, and T2* The pros and cons for different approaches to mapping perfusion The methods of Diffusion-weighted imaging and how this approach can be used to generate diffusion tensor maps and more complex representations of diffusion How flow, magneto-electric tissue property, fat fraction, exchange, elastography, and temperature mapping are performed How fast imaging approaches including parallel imaging, compressed sensing, and Magnetic Resonance Fingerprinting can be used to accelerate or improve tissue property mapping schemes How tissue property mapping is used clinically in different organs Structured to cater for MRI researchers and graduate students with a wide variety of backgrounds Explains basic methods for quantitatively measuring tissue properties with MRI - including T1, T2, perfusion, diffusion, fat and iron fraction, elastography, flow, susceptibility - enabling the implementation of pulse sequences to perform measurements Shows the limitations of the techniques and explains the challenges to the clinical adoption of these traditional methods, presenting the latest research in rapid quantitative imaging which has the possibility to tackle these challenges Each section contains a chapter explaining the basics of novel ideas for quantitative mapping, such as compressed sensing and Magnetic Resonance Fingerprinting-based approaches

Fundamentals of Magnetic Resonance Imaging Donald W. Chakeres,Petra Schmalbrock,1992

MRI Brian M. Dale, Mark A. Brown, Richard C. Semelka, 2015-10-12 This fifth edition of the most accessible introduction to MRI principles and applications from renowned teachers in the field provides an understandable yet comprehensive update. Accessible introductory guide from renowned teachers in the field Provides a concise yet thorough introduction for MRI focusing on fundamental physics, pulse sequences, and clinical applications without presenting advanced math Takes a practical approach, including up-to-date protocols, and supports technical concepts with thorough explanations and illustrations Highlights sections that are directly relevant to radiology board exams Presents new information on the latest scan techniques and applications including 3 Tesla whole body scanners, safety issues, and the nephrotoxic effects of gadolinium-based contrast media

MRI in Practice Catherine Westbrook, John Talbot, 2018-08-01 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 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 Practice is an important text for radiographers, technologists, radiology residents, radiologists, and other students and professionals working within imaging, including medical physicists and nurses.

The MRI Manual Robert B. Lufkin, 1998 Completely revised and expanded, this manual offers a thorough, economical and practical approach to the principles and clinical applications of MRI. First covering the fundamentals of MRI, it then proceeds to address application to anatomic areas or disease processes.

MR Contrast Agents, An Issue of Magnetic Resonance Imaging Clinics - E-Book Marco Essig, Juan Gutierrez, 2012-11-14 MRI contrast agents improve visibility of internal body structures. This issue offers a complete, practically focused review of the use of a variety of contrast agents for MR Imaging. A contrast agent not only must be safe, but also efficacious and cost-effective, and the articles in this issue address all three of these concerns and the uses of contrast agents for a variety of applications.

Clinical Low Field Strength Magnetic Resonance Imaging Hans-Martin Klein, 2015-10-03 This book covers all aspects of low field MRI, describing its advantages, problems and prerequisites. Individual chapters are devoted to site planning, safety considerations, coils, imaging technique, image quality optimization, the imaging of different anatomic regions and likely

future developments. The factors that must be borne in mind when selecting a low field system are clearly identified and detailed attention is paid to the applications for which such a system is adequate. The focus on high field systems has led to a situation where only a few systems with field strengths lower than 0.5 T survive. Some of these systems possess high field features such as multichannel coils and strong gradients; furthermore, sequence technology and image processing techniques taken from higher field strength systems have resulted in impressive imaging capabilities. While 1.5-T systems will probably continue to remain the standard, low field systems offer advantages such as the feasibility of dynamic joint examinations, improvement of T1 contrast, reduction of “missile effects” and decreased radiofrequency exposure. Low field strength MRI consequently has the potential to contribute to optimal patient management and given comparable image quality, its application may become an issue of patient safety. This book will be an invaluable asset to all who are involved in planning and/or running a low field strength MRI facility.

Understanding Magnetic Resonance Imaging Robert C. Smith, Robert C. Lange, 1997-11-20 Magnetic resonance imaging (MRI) is the most technically dependent imaging technique in radiology. To perform and 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 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.

Magnetic Resonance Imaging of the Brain and Spine Scott W. Atlas, 2016-08-03 For more than 25 years, *Magnetic Resonance Imaging of the Brain and Spine* has been the leading textbook on imaging diagnosis of brain and spine disorders. The Fifth Edition continues this tradition of excellence with thorough coverage of recent trends and changes in the clinical diagnosis and treatment of CNS diseases, and how those changes relate to MRI findings. It remains a comprehensive, state-of-the-art reference for all who have an interest in neuroradiology – trainees to experts in the field, basic science researchers, and clinicians.

Magnetic Resonance Imaging, 1988

Magnetic Resonance Imaging David D. Stark, William G. Bradley, 1999 CD-ROM contains the text of *Magnetic Resonance Imaging* including over 270 images, zoom functions and searching capabilities.

A Primer of Magnetic Resonance Imaging Jacek W. Hennel, 1997

Basics of Magnetic Resonance Imaging William Oldendorf, William Oldendorf Jr., 2012-12-06 This book is not intended as a general text on MRI. It is written as an introduction to the field, for nonexperts. We present here a simple exposition of

certain aspects of MRI that are important to understand to use this valuable diagnostic tool intelligently in a clinical setting. The basic principles are presented nonmathematically, using no equations and a minimum of symbols and abbreviations. For those requiring a deeper understanding of MRI, this book will help facilitate the transition to standard texts. Chapters 1 through 4 provide a general introduction to the phenomenon of nuclear magnetic resonance and how it is used in imaging. Chapter 1 discusses magnetic resonance, using a compass needle as an example. In Chapter 2, the transition to the magnetic resonance of the atomic nucleus is made. Chapter 3 describes the principles of imaging. In Chapter 4, the terms T₁ and T₂ are described and their relationship to tissue characterization; the fundamental role of thermal magnetic noise in T₁ and T₂ is discussed.

Magnetic Resonance Imaging of the Body Charles B. Higgins, Hedvig Hricak, 1992

Fast Quantitative Magnetic Resonance Imaging Guido Buonincontri, Joshua Kaggie, Martin Graves, 2020-02-20 Among medical imaging modalities, magnetic resonance imaging (MRI) stands out for its excellent soft-tissue contrast, anatomical detail, and high sensitivity for disease detection. However, as proven by the continuous and vast effort to develop new MRI techniques, limitations and open challenges remain. The primary source of contrast in MRI images are the various relaxation parameters associated with the nuclear magnetic resonance (NMR) phenomena upon which MRI is based. Although it is possible to quantify these relaxation parameters (qMRI) they are rarely used in the clinic, and radiological interpretation of images is primarily based upon images that are relaxation time weighted. The clinical adoption of qMRI is mainly limited by the long acquisition times required to quantify each relaxation parameter as well as questions around their accuracy and reliability. More specifically, the main limitations of qMRI methods have been the difficulty in dealing with the high inter-parameter correlations and a high sensitivity to MRI system imperfections. Recently, new methods for rapid qMRI have been proposed. The multi-parametric models at the heart of these techniques have the main advantage of accounting for the correlations between the parameters of interest as well as system imperfections. This holistic view on the MR signal makes it possible to regress many individual parameters at once, potentially with a higher accuracy. Novel, accurate techniques promise a fast estimation of relevant MRI quantities, including but not limited to longitudinal (T₁) and transverse (T₂) relaxation times. Among these emerging methods, MR Fingerprinting (MRF), synthetic MR (syMRI or MAGIC), and T₁-T₂ Shuffling are making their way into the clinical world at a very fast pace. However, the main underlying assumptions and algorithms used are sometimes different from those found in the conventional MRI literature, and can be elusive at times. In this book, we take the opportunity to study and describe the main assumptions, theoretical background, and methods that are the basis of these emerging techniques. Quantitative transient state imaging provides an incredible, transformative opportunity for MRI. There is huge potential to further extend the physics, in conjunction with the underlying physiology, toward a better theoretical description of the underlying models, their application, and evaluation to improve the assessment

of disease and treatment efficacy.

Mayo Clinic Guide to Cardiac Magnetic Resonance Imaging Kieran McGee PhD, Matthew Martinez MD, Eric Williamson MD, 2015-05-28 The Mayo Clinic Guide to Magnetic Resonance Imaging, Second Edition, is a thoroughly handy reference text and soon to be classic text is designed to educate physicists, technologists, and clinicians in the basics of cardiac MRI. A significantly expanded and reworked clinical imaging section provides numerous imaging protocols for the most commonly indicated cardiac MRI examinations as well as a plethora of well illustrated and described clinical examples. This text is a must have for anyone interested in developing their own cardiovascular MR imaging practice or advancing their existing skills. The addition of case-based questions and answers add a new dimension to this expanded second edition.

Magnetic Resonance Procedures Frank G. Shellock, 2000-12-21 Magnetic Resonance Procedures: Health Effects and Safety is the first authoritative text on MR procedures and its associated health and safety concerns written by noted radiologists, physicists, and scientists with expertise in the field. It contains both theoretical and practical information. This timely text discusses emergent issues related to MR imaging and concerns such as shielding, the safe use of contrast agents, and management of patients with claustrophobia, anxiety, and emotional stress. It also contains a sample pre-MR screening form; comprehensive safety information for over 700 implants, devices, and materials; a list of medical devices and products for interventional MR procedures; and a summary of peer-reviewed MR safety studies. In the wake of recent government demands for increased patient safety in hospitals, along with the rapidly expanding use of MRI, this book is particularly important. It is the definitive resource for information on the safety aspects of magnetic resonance procedures.

Magnetic resonance imaging, 19??

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