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Wilfried Andrä, Hannes Nowak



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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

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Interventional Magnetic Resonance Imaging Thomas Kahn, Harald Busse, 2012-08-27 The idea of using the enormous potential of magnetic resonance imaging MRI not only for diagnostic but also for interventional purposes may seem obvious but it took major efforts by engineers physicists and clinicians to come up with dedicated interventional techniques and scanners and improvements are still ongoing Since the inception of interventional MRI in the mid 1990s the numbers of settings techniques and clinical applications have increased dramatically This state of the art book covers all aspects of interventional MRI The more technical contributions offer an overview of the fundamental ideas and concepts and present the available instrumentation The richly illustrated clinical contributions ranging from MRI guided biopsies to completely MRI controlled therapies in various body regions provide detailed information on established and emerging applications and identify future trends and challenges

Cardiovascular Magnetic Resonance E. Nagel, A.C. van Rossum, E. Fleck, 2012-12-06 Magnetic resonance imaging of the heart allows a quick and exact evaluation of global and regional pump function regional myocardial wall motion myocardial perfusion and coronary blood flow Some of these parameters must also be analyzed under stress conditions to identify myocardial ischemia By combining these functional parameters with high resolution anatomical images which are even sufficient to depict the coronary arteries magnetic resonance imaging has become one of the most important noninvasive procedures to study the condition of the heart and is being increasingly used in the clinical setting Therefore it is important not only to optimize and evaluate the technique in specialized centers but also for a broad variety of users to become familiar with the wide range of applications for this method In this book which is aimed at cardiologists radiologists and technical assistants the physical fundamentals and scanning techniques are clearly described In addition practical guidelines for the anatomical planning of the examination and for patient care are offered The accompanying CD ROM contains additional figures and numerous videos

Open Field Magnetic Resonance Imaging D.H.W. Grönemeyer, R.B. Lufkin, 2012-12-06 Until the advent of the Access open magnet introduced by Diasonics in 1988 claustrophobia and the loud

hammering noise were considered part of the price patients had to pay for the benefits of this superb imaging approach. The fact that it was possible to obtain images of acceptable diagnostic quality while the patient was resting comfortably in pleasant airy surroundings reminiscent of a four poster bed was certainly a great advantage. It became obvious however that the open magnet also offered the opportunity for the interventional radiologist or surgeon to perform procedures as access to the patient was immediate and can be continuous during the scanning. It was also necessary to develop methods for real time imaging and also vary the spatial resolution obtaining the best when speed was not essential. After this instrument showed the potential of revolutionizing both the approach to imaging as well as interventional radiology by eliminating the exposure to ionizing radiation allowing more complicated interventions to be image guided several other companies embraced the idea of open magnets. These instruments have started to proliferate and now occupy a significant portion of the market.

MRI and CT of the Cardiovascular System Charles B. Higgins, Albert de Roos, 2013-09-11 Written by internationally eminent experts in cardiovascular imaging this volume provides state of the art information on the use of MRI and CT in the assessment of cardiac and vascular diseases. This third edition now in four color reflects recent significant advances in cardiovascular MRI technology and the continuing emergence of multi detector CT as an important diagnostic modality particularly for ischemic heart disease. Seven new chapters have been added including chapters on anatomy cardiovascular MR in infants children assessing myocardial viability risk assessment in ischemic heart disease and MR guidance.

Handbook of Cardiac Anatomy, Physiology, and Devices Paul A. Iaizzo, 2024-12-08 This book covers the latest information on the anatomic features underlying physiologic mechanisms and treatments for diseases of the heart. Key chapters address preclinical animal models for cardiac research and clinical trials performed cardiac mapping systems heart valve therapies and other device based tools and technologies for cardiac diagnoses and treatments. Once again companion of supplementary videos offer unique insights into the device tissue interfaces including those within beating hearts i.e. these supplemental videos enhance ones understandings of key points within the text. The Handbook of Cardiac Anatomy Physiology and Devices the Fourth Edition is a comprehensive and state of the art resource textbook that should provide clinicians and biomedical engineers alike with the authoritative information and background they need to work on and implement tomorrow's generation of life saving cardiac therapies and devices.

Magnetic Resonance Tomography Maximilian F Reiser, Wolfhard Semmler, Hedvig Hricak, 2007-12-05 With an incredible 2400 illustrations and written by a multitude of international experts this book provides a comprehensive overview of both the physics and the clinical applications of MRI including practical guidelines for imaging. The authors define the importance of MRI in the diagnosis of several disease groups in comparison or combination with other methods. Chapters dealing with basic principles of MRI MR spectroscopy MRS interventional MRI and functional MRI fMRI illustrate the broad range of applications for MRI. Both standard and cutting edge applications of MRI are included. Material on molecular imaging and nanotechnology give glimpses

into the future of the field *Update on Spine Imaging, An Issue of Magnetic Resonance Imaging Clinics of North America* Mario Muto, 2016-07-26 This issue of MRI Clinics of North America focuses on MR Imaging of the Spine and is edited by Dr Mario Muto Articles will include Diagnostic Approach to Pediatric Spin Pathology Neuroimaging of Scoliosis and Sagittal Balance Neuroimaging of the Degenerative Spine Neuroimaging of Spinal Instability Neuroimaging of the Traumatic Spine Neuroimaging of Spine Infections Neuroimaging of the Post Operative Spine Neuroimaging of Spinal Canal Stenosis Neuroimaging of Spinal Tumors and more

Magnetism in Medicine Wilfried Andrä, Hannes Nowak, 2007-02-27 This second completely updated and extended edition of the only reference work in this growing field of medical physics focuses on biomagnetic instrumentation as well as applications in cardiology and neurology New chapters have been added on fetal magnetography and magnetic field therapy as well as the safety aspects of magnetic fields Written by well known specialists from Germany USA Canada Japan the Netherlands and Scandinavia the result is a manual for researchers in this field as well as for those who apply modern methods based on magnetism in medical practice It equally provides a detailed overview for newcomers to the field as well as for experts familiar with only one part of the area

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