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Julien Cohen-Adad, Claudia Wheeler-Kingshott

Molecular Imaging Brian D. Ross, Sanjiv S. Gambhir, 2021

Quantitative MRI of the Spinal Cord Julien Cohen-Adad, Claudia Wheeler-Kingshott, 2014-01-16 Quantitative MRI of the Spinal Cord is the first book focused on quantitative MRI techniques with specific application to the human spinal cord. This work includes coverage of diffusion-weighted imaging, magnetization transfer imaging, relaxometry, functional MRI, and spectroscopy. Although these methods have been successfully used in the brain for the past 20 years, their application in the spinal cord remains problematic due to important acquisition challenges (such as small cross-sectional size, motion, and susceptibility artifacts). To date, there is no consensus on how to apply these techniques; this book reviews and synthesizes state-of-the-art methods so users can successfully apply them to the spinal cord. Quantitative MRI of the Spinal Cord introduces the theory behind each quantitative technique, reviews each theory's applications in the human spinal cord and describes its pros and cons, and suggests a simple protocol for applying each quantitative technique to the spinal cord. Chapters authored by international experts in the field of MRI of the spinal cord Contains "cooking recipes –examples of imaging parameters for each quantitative technique–designed to aid researchers and clinicians in using them in practice Ideal for clinical settings

Chemical Exchange Saturation Transfer Imaging Michael T. McMahon, Assaf A. Gilad, Jeff W.M. Bulte, Peter C.M. van Zijl, 2017-01-12 This is the first textbook dedicated to CEST imaging and covers the fundamental principles of saturation transfer, key features of CEST agents that enable the production of imaging contrast, and practical aspects of preparing image-acquisition and post-processing schemes suited for in vivo applications. CEST is a powerful MRI contrast mechanism with unique features, and the rapid expansion it has seen over the past 15 years since its original discovery in 2000 has created a need for a graduate-level handbook describing all aspects of pre-clinical, translational, and clinical CEST imaging. The book provides an illustrated historical perspective by leaders at the five key sites who developed CEST imaging, from the initial saturation transfer NMR experiments performed in the 1960s in Stockholm, Sweden, described by Sture Forsén, to the work on integrating the basic principles of CEST into imaging by Robert Balaban, Dean Sherry, Silvio Aime, and Peter van Zijl in the United States and Italy. The editors, Drs. Michael T. McMahon, Assaf A. Gilad, Jeff W. M. Bulte, and Peter C. M. van Zijl, have been pioneers developing this field at the Johns Hopkins University School of Medicine and the Kennedy Krieger Institute including contributions to Nature Medicine, Nature Biotechnology, Nature Materials, and the Proceedings of the National Academy of Sciences. As recognition for their initial development of the field, Drs. van Zijl and Balaban were awarded the Laukien Prize in April 2016, established in 1999 to honor the memory of Professor Gunther Laukien, a co-founder of Bruker Biospin GmbH.

Magnetic Resonance Elastography Sudhakar K. Venkatesh, Richard L. Ehman, 2014-10-01 The first book to cover the groundbreaking development and clinical applications of Magnetic Resonance Elastography, this book is essential for all practitioners interested in this revolutionary diagnostic modality. The book is divided into three sections. The first covers the history of MRE. The second covers technique and clinical applications of MRE in the liver with respect to fibrosis, liver masses, and other diseases. Case descriptions are presented to give the reader a hands-on approach. The final section presents the techniques, sequence and preliminary results of applications in other areas of the body including muscle, brain, lung, heart, and breast.

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.

Protection of Patients and Volunteers Undergoing MRI Procedures Health Protection Agency (Great Britain). Centre for Radiation, Chemical and Environmental Hazards, 2008

Elastografia Richard G. Barr, 2018-07-16 Este manual prático reúne conhecimentos adquiridos das principais autoridades do mundo sobre o uso de elastografia ultrassonográfica. A rigidez ou maciez do tecido visualizado pela elastografia fornece um diagnóstico radiológico preciso de processos patológicos, incluindo câncer, inflamação e fibrose. É uma modalidade de diagnóstico por imagem eficaz e exata, que ajuda a evitar biópsias invasivas. Os dois primeiros capítulos abordam os princípios fundamentais da elastografia, os capítulos subsequentes exploram sua utilização em patologias específicas. Os autores abordam o uso extensivamente validado e implementado da elastografia para doença hepática difusa, doenças da mama e glândula tireoide. Também discutem os potenciais benefícios e limitações para a próstata, bço, pâncreas, rins, sistema musculoesquelético, glândulas salivares, linfonodos e testículos. Apresentam ainda um capítulo sobre as possíveis aplicações futuras desta tecnologia em constante evolução. Esta obra fornece conhecimentos fundamentais sobre a visualização de diferenças quantificáveis na elasticidade de tecidos e sobre a aplicação desta informação para melhorar as estratégias terapêuticas de diversas patologias. É leitura essencial para radiologistas, ultrassonografistas e técnicos de imagem.

Quantitative Magnetic Resonance Imaging Nicole Seiberlich, Vikas Gulani, Adrienne Campbell-Washburn, Steven Sourbron, Mariya Ivanova Doneva, Fernando Calamante, Houchun Harry Hu, 2020-11-18 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

Compressed Sensing Yonina C. Eldar,Gitta Kutyniok,2012-05-17 A detailed presentation of compressed sensing by leading researchers, covering the most significant theoretical and application-oriented advances.

Functional Neural Transplantation III ,2012-12-31 This issue of Progress in Brain Research is split over 2 volumes, bringing together cutting-edge research on Functional Neural Transplantation. The 2 volumes review current knowledge and understanding, provide a starting point for researchers and practitioners entering the field, and build a platform for further research and discovery. Leading authors review the state-of-the-art in their field of investigation, and provide their views and perspectives for future research Chapters are extensively referenced to provide readers with a comprehensive list of resources on the topics covered All chapters include comprehensive background information and are written in a clear form that is also accessible to the non-specialist

Compressed Sensing Magnetic Resonance Image Reconstruction Algorithms Bhabesh Deka,Sumit Datta,2018-12-29 This book presents a comprehensive review of the recent developments in fast L1-norm regularization-based compressed sensing (CS) magnetic resonance image reconstruction algorithms. Compressed sensing magnetic resonance imaging (CS-MRI) is able to reduce the scan time of MRI considerably as it is possible to reconstruct MR images from only a few measurements in the k-space; far below the requirements of the Nyquist sampling rate. L1-norm-based regularization problems can be solved efficiently using the state-of-the-art convex optimization techniques, which in general outperform the greedy techniques in terms of quality of reconstructions. Recently, fast convex optimization based reconstruction algorithms have been developed which are also able to achieve the benchmarks for the use of CS-MRI in clinical practice. This book enables graduate students, researchers, and medical practitioners working in the field of medical image processing, particularly in MRI to understand the need for the CS in MRI, and thereby how it could revolutionize the soft tissue imaging to benefit healthcare technology without making major changes in the existing scanner hardware. It would be particularly useful for researchers who have just entered into the exciting field of CS-MRI and would like to quickly go through the developments to date without diving into the detailed mathematical analysis. Finally, it also discusses recent trends and future research directions for implementation of CS-MRI in clinical practice, particularly in Bio- and Neuro-informatics applications.

Electromagnetics in Magnetic Resonance Imaging Christopher M. Collins,2016-03-01 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 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 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.

Metabolism Meets Function: Untangling the Cross-Talk Between Signalling and Metabolism Alessandra Castegna,Paolo E. Porporato,Daniel McVicar,2020-12-18 This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

Image Principles, Neck, and the Brain Luca Saba,2016-04-21 Magnetic resonance imaging (MRI) is a technique used in biomedical imaging and radiology to visualize internal structures of the body. Because MRI provides excellent contrast between different soft tissues, the technique is especially useful for diagnostic imaging of the brain, muscles, and heart. In the past 20 years, MRI technology has improved si

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.

Advanced Diffusion Encoding Methods in MRI Daniel Topgaard, 2020-08-17 The medical MRI community is by far the largest user of diffusion NMR techniques and this book captures the current surge of methods and provides a primary source to aid adoption in this field. There is a trend to adapting the more advanced diffusion encoding sequences developed by NMR researchers within the fields of porous media, chemical engineering, and colloid science to medical research. Recently published papers indicate great potential for improved diagnosis of the numerous pathological conditions associated with changes of tissue microstructure that are invisible to conventional diffusion MRI. This book disseminates these recent developments to the wider community of MRI researchers and clinicians. The chapters cover the theoretical basis, hardware and pulse sequences, data analysis and validation, and recent applications aimed at promoting further growth in the field. This is a fast moving field and chapters are written by key MRI scientists that have contributed to the successful translation of the advanced diffusion NMR methods to the context of medical MRI, from global locations.

MRI Bioeffects, Safety, and Patient Management Frank G. Shellock, Ed., 2013-09-01 MRI Bioeffects, Safety, and Patient Management is a comprehensive, authoritative textbook on the health and safety concerns of MRI technology that contains contributions from more than forty internationally respected experts in the field. This textbook includes both theoretical and practical information and serves as the definitive resource for radiologists and other physicians, MRI technologists, physicists, scientists, MRI facility managers, and others. The text begins with a discussion of basic MRI physics and then proceeds to a description of the bioeffects of static, gradient, and radiofrequency electromagnetic fields as well as the risks associated with acoustic noise. It then discusses the use of MRI during pregnancy, the design of an MRI facility to support safety, the procedures to screen patients and other individuals, and the management of patients with claustrophobia, anxiety, or emotional distress. Other chapters cover the safety of MRI contrast agents, the use of ferromagnetic detection systems, techniques for physiological monitoring, the unique safety needs of interventional MRI centers, and the administration of sedation and anesthesia during MRI. Detailed descriptions covering the proper management of patients with metallic implants and complex electronically activated devices, such as cardiac pacemakers and neuromodulation systems, are included. MRI safety policies and procedures are presented for hospitals/medical centers, outpatient facilities, children's hospitals, and research facilities. Finally, MRI standards and guidelines are provided for the United States, Europe, Canada, and Australia.

Breast MRI Katja Pinker, Ritse Mann, Savannah Partridge, 2022-09-22 Breast MRI: State of the Art and Future Directions provides a comprehensive overview of the current applications of breast MRI, including abbreviated MRI, as well as presenting technical recommendations, practical implementation and associated challenges in clinical routine. In addition, the book introduces novel MRI techniques, multimodality imaging, and advanced image processing coupled with AI, reviewing their potential for impeding and future clinical implementation. This book is a complete reference on state-of-the-art breast MRI methods suitable for MRI researchers, radiographers and clinicians. Breast cancer is one of the leading causes of death among women with early detection being the key to improved prognosis and survival. Magnetic resonance imaging (MRI) of the breast is undisputedly the most sensitive imaging method to detect cancer, with a higher detection rate than mammography, digital breast tomosynthesis, and ultrasound. Spans the whole spectrum of breast MRI, including basic imaging techniques, indications, interpretation, and the latest cutting-edge techniques Reviews multiparametric MRI and abbreviated protocols, providing an outlook on the future of this technique Discusses the predictive and prognostic value of MRI as well as the evolving field of radiomics/genomics and AI

Introduction to Nanoscience and Nanotechnology Chris Binns, 2021-10-13 Explore foundational and advanced topics in nanoscience with this intuitive introduction In the newly revised Second Edition of Introduction to Nanoscience and Nanotechnology, renowned researcher Dr. Chris Binns delivers an accessible and broad-based treatment of nanoscience and nanotechnology. Beginning with the fundamental physicochemical properties of nanoparticles and nanostructures, the book moves on to discuss how these properties can be exploited to produce high-performance materials and devices. Following chapters explore naturally occurring nanoparticles and artificially engineered carbon nanoparticles, their mechanical properties, and their applications in nanotechnological science. Both design ideologies for manufacturing nanostructures—bottom-up and top-down—are examined, as is the idea that the two methodologies can be combined to allow for the imaging, probing, and manipulation of nanostructures. A survey of the current state of nanotechnology rounds out the text and introduces the reader to a variety of novel and exciting applications of nanoscience. The book also includes: A thorough introduction to the importance and impact of particle size on the magnetic, mechanical, and chemical properties of materials Comprehensive explorations of carbon nanostructures, including bucky balls and nanotubes, and single-nanoparticle devices Practical discussions of colloids and nanoscale interfaces, as well as nanomechanics and nanofluidics In-depth examinations of the medical applications of functional nanoparticles, including the treatment of tumors by hyperthermia and medical diagnosis Perfect for senior undergraduate and graduate students in materials science and engineering, Introduction to Nanoscience and Nanotechnology will also earn a place in the libraries of early-career and established researchers with professional or personal interests in nanoscience and nanotechnology.

MRI Brian M. Dale, Mark A. Brown, Richard C. Semelka, 2015-08-06 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

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