Body Mri Cases Cases In Radiology 1st First Edition Published By Oxford University Press Usa 2013

This book is a unique, authoritative and clinically oriented text on pediatric body MRI. It is your one-step reference for current information on pediatric body MRI addressing all aspects of congenital and acquired disorders. The easy-to-navigate text is divided into 17 chapters. Each chapter is organized to comprehensively cover the latest MRI techniques, fundamental embryology and anatomy, normal development and anatomic variants, key clinical presentation, characteristic imaging findings with MRI focus, differential diagnosis and pitfalls, as well as up-to-date management and treatment. Written by internationally known pediatric radiology experts and editorial team lead by acclaimed author, Edward Y. Lee, MD, MPH, this book is an ideal guide for practicing radiologists, radiology trainees, MRI technologists as well as clinicians in other specialties who are interested in pediatric body MRI.

A practical quick reference guide to the main techniques used to image common medical and surgical conditions.

Teaching Atlas of Abdominal Imaging is a case-based reference covering the full spectrum of common and uncommon problems of the gastrointestinal and genitourinary tract encountered in everyday practice. The book organizes cases into sections based on the anatomic location of the problem. Each chapter provides succinct descriptions of clinical presentation, radiologic findings, diagnosis, and differential diagnosis for the case. The chapter then discusses the background for each diagnosis, clinical findings, common complications, etiology, imaging findings, treatment, and prognosis. Key features: Succinct text and consistent presentation in each chapter enhance the ease of use Practical discussion of all current imaging modalities Nearly 550 high-quality images demonstrate key concepts Bulleted lists of pearls and pitfalls at the end of each chapter highlight important points An appendix with 64-slice protocols for various CT scans, such as dual-phase liver and pancreatic scans Ideal for both self-assessment and rapid review, this book is a valuable resource for radiologists, gastrointestinal and genitourinary radiologists, and fellows and residents in these specialties.

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 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.

Using state-of-the-art MRI images, this book illustrates radiological findings in the abdomen and pelvis in a case presentation format. Cases presented in this book include common and uncommon diseases of nearly every organ system of the abdomen and pelvis. Each case succinctly discusses the relevant imaging findings, differential diagnosis, and potential imaging and diagnostic pitfalls. Many cases also include discussion of MRI technique, with illustration of some common artifacts. For radiology residents and fellows, this book will be a valuable study tool and reference; fourth-year residents should find this book especially helpful when studying for oral boards. Practicing radiologists should find this a useful quick review of state-of-the-art body MRI.

This book offers an overview of the clinical applications of PET/MR imaging through a case-based format. Hybrid PET/MRI provides functional and anatomical information via one setting offering superior imaging quality with lower radiation dose being administered to the patient. The cases in this book focus on the use of this technique in the diagnosis of oncologic, neurologic, cardiovascular, infectious and inflammatory, and pediatric diseases. Each case is presented with the patient history, protocols, interpretation of findings, and pearls and pitfalls accompanied by high quality PET/MR images. The major strength of this book is the discussion of both MRI and PET findings pertinent to each particular case. It expands the discussion of oncologic applications of this modality through a variety of cases that highlight staging, treatment response, and follow up. Illustrating a spectrum of PET/MRI clinical applications, PET/MR Imaging: A Case-Based Approach is a valuable resource for radiologists, nuclear medicine physicians, and residents.

Gastrointestinal Imaging presents a comprehensive review of gastrointestinal pathologies commonly encountered by practicing radiologists and residents in training. Chapters are organized by organ system and include the Pharynx and Esophagus, Stomach, Small Bowel, Appendix, Colon, Anorectum, Liver, Gallbladder, Bile Ducts, Pancreas, Spleen, Peritoneum, Mesentery, and Abdominal Wall, and a chapter on multisystem disorders. Part of the Rotations in Radiology series, this book offers a guided approach to imaging diagnosis with examples of all imaging modalities complimented by the basics of interpretation and technique and the nuances necessary to arrive at the best diagnosis. Each pathology is covered with a targeted discussion that reviews the definition, clinical features, anatomy and physiology, imaging techniques, differential diagnosis, clinical issues, key points, and further reading. This organization is ideal for trainees' use during specific rotations and for exam review, or as a quick refresher for the established gastrointestinal imager.

Recent advances in MR technology permit the application of diffusion MRI outside of the brain. In this book, the authors present cases drawn from daily clinical practice to illustrate the role of diffusion sequences, along with other morphological and functional MRI information, in the work-up of a variety of frequently encountered oncological and non-oncological diseases. Breast, musculoskeletal, whole-body, and other applications are covered in detail, with careful explanation of the pros and cons of diffusion MRI in each circumstance. Quantification and post-processing are discussed, and advice is provided on how to acquire state of the art images, and avoid artifacts, when using 1.5- and 3-T magnets. Applications likely to emerge in the near future, such as for screening, are also reviewed. The practical approach adopted by the authors, combined with the wealth of high-quality illustrations, ensure that this book will be of great value to practitioners.

Comprehensive and to-the-point, Breast Imaging Cases covers the field of breast imaging for the radiology resident and practitioner. A new addition to the Cases in Radiology series, this book follows the clear and user-friendly format of problem and solution, presented in 100 unique cases. Featuring over 400 images, this case book examines the spectrum of common clinical issues in breast imaging, including classic and frequently encountered diagnoses, as well as rare findings. Cases are organized in order of increasing difficulty to facilitate

learning and challenge the reader to probe further. Under examination are the gamut of cysts, calcifications, benign masses, and carcinomas found in breast imaging. The last section of cases is dedicated to breast MR. Each case is complete with relevant findings, differential diagnoses, management, and extensive teaching points.

Genitourinary Radiology Cases features 129 cases that cover the spectrum of benign and malignant genitourinary conditions and imaging modalities for a practical, easy-to-use review guide.

When a radiological image includes unfamiliar features, how do you decide whether it is normal variation or pathological abnormality? If you decide an abnormality is present, can you make a diagnosis from the image alone? Pearls and Pitfalls in Musculoskeletal Imaging differentiates less common findings or normal variant mimickers from the more common similar appearing diseases, helping you make a quick and accurate diagnosis. Musculoskeletal disorders of the shoulder, upper extremity, pelvis, and lower extremity are described in over 90 cases, highly illustrated with over 300 radiographic, CT, MRI and ultrasound images. Each case follows a standard format: imaging description, importance, typical clinical scenario, differential diagnosis and teaching point, enabling you to locate key information quickly. Pearls and Pitfalls in Musculoskeletal Imaging will help you spot artifacts, mimics and other unusual conditions, enabling you to avoid misdiagnosis and prevent mismanagement. An essential diagnostic tool for radiologists at every level.

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 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.

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 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. 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 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

The daily analysis of whole-body MRI datasets uncovers many incidental findings, which are discussed by an interdisciplinary advisory board of physicians. This book provides a systematic overview of these incidental findings with the aid of approximately 240 high-quality images. The radiologists involved in the project have written chapters on each organ system, presenting a structured compilation of the most common findings, their morphologic appearances on whole-body MRI, and guidance on their clinical management. Chapters on technical and ethical issues are also included. It is hoped that this book will assist other diagnosticians in deciding how to handle the most common incidental findings encountered when performing whole-body MRI.

This book provides complete coverage of MRI to diagnose tumours and functional disorders of the chest and abdomen. It also addresses the expanding use of MRI to examine the male and female reproductive systems, pelvis, hips, bladder, and breast.

The Second Edition of this popular text presents over 370 musculoskeletal imaging cases from the teaching files of leading medical centers. The format replicates the learning experience of sitting at the viewbox with an expert consultant, honing your diagnostic reasoning skills—an excellent aid in preparing for board exams. All cases are presented as unknowns in a consistent format—a brief clinical history, one or more images, a description of the findings, the diagnosis, and a discussion. Organized by anatomic region, the case collection encompasses all current imaging modalities and all categories of musculoskeletal disease. This edition includes 37 new cases and new images for 140 cases.

Case Studies in Abdominal and Pelvic Imaging presents 100 case studies, covering both common every-day conditions of the abdomen and pelvis, as well as less common cases that junior doctors and radiologists in training should be aware of. Compiled by experts in the field, Case Studies in Abdominal and Pelvic Imaging uses the most up-to-date and high quality images, including plain films, CT scans, MRI scans and the occasional nuclear medicine image where relevant. Each case is presented in a pedagogical style, with 1-4 images and accompanying questions, followed by answers and further relevant images. This is then augmented by an explanation of the imaging and key teaching points with references for further reading, making this book a valuable learning guide in an accessible form.

Effectively perform and interpret MR body imaging with this concise, highly illustrated resource! Fundamentals of Body MRI, 2nd Edition, by Drs. Christopher Roth and Sandeep Deshmukh, covers the essential concepts residents, fellows, and practitioners need to know, laying a solid foundation for understanding the basics and making accurate diagnoses. This easy-to-use title in the Fundamentals of Radiology series covers all common body MR imaging indications and conditions, while providing new content on physics and noninterpretive skills with an emphasis on quality and safety. More than 1,400 detailed MRI images and 100 algorithms and diagrams highlight key findings and help you grasp visual nuances of images you’re likely to encounter. All common body MR imaging content is covered, along with discussion of how physics, techniques, hardware, and artifacts affect results. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Newly streamlined format helps you retrieve important information more quickly. Extensively revised content on the liver, including new MRI contrast agents; new coverage of the spleen; and new safety tips and guidelines keep you up to date. New chapters on GI imaging, the prostate, and the male genitourinary system make this a one-stop reference to address the full range of body MRI.

Master the critical imaging content you need to know with this newly consolidated title in the popular Case Review series. Abdominal Imaging offers a highly illustrated, case-based preparation for board review to help residents and recertifying radiologists succeed on exams, demonstrate a clinical understanding of gastrointestinal and genitourinary imaging, and improve imaging accuracy and interpretation. Cases include both common and difficult-to-diagnose disorders including gallbladder diseases, pancreatitis and pancreatic masses, staging and identification of gynecologic malignancies, fluoroscopy findings in GI and GU diseases, and much more. Presents more than 160 high-yield case studies organized by level of difficulty, helping you build your knowledge and confidence in stages. Includes more than 650 multiple-choice questions, answers, and rationales that mimic the format of certification exams. Uses short, easily digestible chapters covering the full range of abdominal imaging for efficient, effective learning and exam preparation. Features 700+ high-quality, full-color images spanning the

GI and GU systems and pertinent patient cases reflecting current abdominal radiology practice. Images include fluoroscopy and plain films, computed tomography, and magnetic resonance imaging, with coverage of key areas such as prostate MRI and rectal MRI, CT enterography, liver CT and MRI, and renal masses on CT and MRI. Consolidates topics covered in Gastrointestinal Imaging: Case Review and Genitourinary Imaging: Case Review into a single, convenient resource.

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

Body MRI: Cases in Radiology serves as a ready reference of 141 cases and nearly 900 superb quality images of common and uncommon conditions encountered in the daily practice of body MRI. The book is specifically intended for radiology residents and fellows as a study guide to broaden clinical knowledge and improve diagnostic skills when reviewing MR images of the liver, biliary system, pancreas, urinary tract, adrenal glands, peritoneal cavity, spleen, gastrointestinal system, female genital tract, vascular system, and heart. The selected cases provide outstanding examples of various disease states and their appearances as demonstrated by MR imaging using a variety of pulse sequences. Each case is shown on the front page with a brief clinical history and multiple, carefully selected images that best show the important findings. When turning the page, the imaging findings, differential diagnosis and important teaching points are given in bullet-point format facilitating the learning process and allowing the reader to improve interpretation and diagnostic capability in body MRI. Cases are presented in random order to mimic the diagnostic challenges that typically occur when reading the daily worklist of cases in a routine clinical body MRI practice. Readers can also review the cases by organ system through the Index of Cases found in the back of the book. Body MRI Cases is also an excellent companion study guide to Essentials of Body MRI by the same authors. Together, these texts provide an excellent foundation in Body MRI.

Residents, fellows and practicing radiologists who are preparing for certification exams (the current ABR Part II oral, the future ABR Core and Certifying, CAQ and MOC) will find the new edition of this case-based review book an indispensable tool for success. Duke Radiology Case Review has long been considered one of the standards in board review, and is a well-known adjunct to the popular and well-attended board review course given by the prestigious Department of Radiology at Duke University. Close to 300 case presentations are structured to align with the way residents are taught to work through patient cases. Divided by body region and including chapters on interventional radiology and nuclear medicine, each case offers a clinical history, relevant images, and bulleted points describing the differential diagnosis. This is followed by the actual diagnosis and key clinical and radiologic facts about the diagnosis and suggested readings. This edition includes a new chapter on cardiac imaging.

Rely on this compendium of evidence-based criteria to confidently select the most appropriate imaging modality for the diagnostic investigation of the most commonly evaluated musculoskeletal conditions. Information on Radiographs, MRIs, CTs, and Diagnostic Ultrasound is condensed into easily understood bullet points, decision pathways, tables, and charts. The most valuable feature of this Handbook is the ability to see the entire spectrum of imaging available, and understand why one imaging modality is most appropriate at a given point in the diagnostic investigation. This Handbook includes all the evidence–based criteria currently available to guide a primary practitioner in the selection of the most appropriate imaging investigation for a given clinical condition: the American College of Radiology Appropriateness Criteria for Musculoskeletal Conditions, Western Australia’s Diagnostic Imaging Pathways for Musculoskeletal Conditions, and the Ottawa, Pittsburgh, and Canadian Clinical Decision Rules for ankle, knee, and cervical spine trauma.

A comprehensive highly visual reference to the planning and positioning of the patient and the coil in MR imaging. Anne Bright, Royal North Shore Hospital, Australia.

Featuring 150 cases and over 400 high-quality images, Pediatric Imaging Cases offers a complete survey of the field of pediatric radiology. Cases are formatted as questions and answers, allowing for self-assessment, complete with relevant radiologic findings, differential diagnoses, teaching points, further steps in management, and suggested further readings. Part of the Cases in Radiology series, this book offers a comprehensive overview of the clinical issues of pediatric radiology: cardiovascular system, gastrointestinal system, genitourinary system, spine, neuroradiology, chest and airway, and musculoskeletal system. Ideal for residents preparing for board exams as well as seasoned clinicians wishing to test their knowledge, Pediatric Imaging Cases provides a thorough investigation of the field.

Musculoskeletal Imaging Cases features 145 cases that cover the spectrum of clinical musculoskeletal issues and imaging modalities for a practical, easy-to-use review guide.

200 interactive genitourinary imaging cases deliver the best board review possible! Effective 2-page presentation for each case Cases organized and coded by difficulty level Eye-catching full-color design Part of the acclaimed McGraw-Hill’s Radiology Case Review Series, this unique resource challenges you to look at a group of images, determine the diagnosis, answer related questions, and gauge your knowledge by reviewing the correct answer. It all adds up to the best review of genitourinary imaging available—one that’s ideal for certification or recertification, or as an incomparable clinical refresher. Distinguished by an effective 2-page design and a full-color presentation, each book in this series is filled with cases, annotated images, questions and answers, pearls, and relevant literature references that will effectively prepare you for virtually any exam on the subject. This comprehensive coverage spans everything from basic principles through the latest diagnostic imaging techniques and equipment and technology. If your goal is to increase your knowledge of genitourinary imaging, you’ll find this book to be an invaluable study partner.

Featuring 1,785 CT and MRI images and 460 cases from leading medical centers, this Second Edition is a comprehensive teaching-file atlas covering virtually all abdominal and pelvic diseases. Cases are presented as unknowns in a consistent format—a brief clinical history, several images, relevant findings, differential diagnosis, final diagnosis, and a discussion. This format helps readers hone their diagnostic reasoning skills and offers excellent preparation for radiology board exams. This edition includes 245 brand-new cases, new images for 190 cases, and a new abdominal wall chapter. Images reflect state-of-the-art technologies, including multidetector row CT, 3D reformatted images, and breath-hold MRI sequences.

295 cases and more than 1700 illustrations teach you how to accurately interpret genitourinary tract images 4 STAR DOODY'S REVIEW! "The high-quality images and pithy discussions make this book very useful to radiologists, both in training and in practice....The book's best features are the excellent image quality, the inclusion of images of differential diagnostic considerations, and concise discussions of the cases. This is an excellent resource for radiologists in training and in practice. The case-based format is excellent for board preparation, and its concise prose provides all the necessary information while leaving out the excess."--Doody's Review Service Genitourinary Imaging Cases presents an efficient and systematic approach to examining images of the genitourinary system. You will find an unmatched collection of 295 cases ranging from normal anatomy to the full spectrum of disease –- including renal cystic masses, renal infection, renal vascular disease, and female pelvic abnormalities. Included with these cases are 1700+ high-quality images that are representative of what you would see on various imaging modalities. The book’s easy-to-navigate organization is specifically designed for use at the workstation. The concise text, numerous images, and helpful icons speed access to essential information and simplify the learning process. Features: Each case includes findings, differential diagnosis, comment/discussion, and clinical pearls Icons, a grading system depicting the full spectrum of diseases, common to rare, and imaging findings, typical to unusual, along with the consistent chapter organization make this perfect for rapid at-the-bench consultation Strong focus on pathology Special emphasis on the latest diagnostic modalities that include both CT and MR images

Practical Body MRI: Protocols, Applications and Image Interpretation demystifies MRI examinations of the abdomen and pelvis, giving the essential knowledge required by radiologists in order to develop and select appropriate protocols, assess scan quality and interpret imaging studies. Each chapter describes why each sequence is performed, what to look for, and how the important findings from each sequence lead to a unique diagnosis. Numerous protocols are included, from the more common, such as liver and renal MRI, to more tailored examinations such as rectal and placental MRI. All protocols are richly illustrated with images of body MR pathology. A separate chapter discusses MRA/MRV and an introductory chapter gives a brief, practical introduction to MRI physics and receiver coils. The authors' expertise and practical, concise explanations of both protocols and image interpretation makes this an essential resource for residents, fellows and experienced radiologists using body MRI for the first time.

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 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. 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 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.

This title offers a concise, practical, and instructional approach to the most common imaging procedures of the abdominal and pelvic organs, gastrointestinal tract, and genitourinary tract. It contains expert guidance on how to accurately read the images and how to perform critical techniques including biopsy and percutaneous drainage.

In this book a team of leading experts come together to provide a comprehensive overview of modern imaging of the abdomen and pelvis, with detailed sections on both gastrointestinal and genitourinary imaging. Each chapter has an identical structure and focuses on a particular organ or organ system, allowing the reader to approach the field one topic at a time. Indications for a variety of imaging techniques and examination protocols are clearly described, and the imaging features of normal anatomy and pathologic entities are depicted in an abundance of high-quality images. Care is taken to consider all recent technical developments and new indications, and the diagnostic performance of different imaging modalities is carefully compared. It is anticipated that this book will come to be regarded as the standard work of reference on abdominal and pelvic radiology.

The optimal use of magnetic resonance imaging poses a constant challenge as the technology is continually and rapidly advancing. This leaves the MR practitioner, beginner or experienced, in constant need of up-to-date, easily read and well illustrated material presenting the clinical constellation of pathologies as seen by an MRI scanner in such an effective way. MRI of the Whole Body sets out to educate trainee and experienced radiologists, radiographers and clinicians regarding key sequences for optimal imaging of common pathologies, with simple explanations on the choice of a particular MR sequence. The authors present typical and representative examples with relevant clinical and imaging features to assist a better understanding of these commonly encountered conditions. Every unit begins with a quick anatomy review, and each case is described in a standardised format with a clinical background, key sequences, imaging features, and practical hints as to close differentials and ways to distinguish between them. A text of this nature is essential for all MR practitioners whatever their background: medical, technical or scientific. Key features: First of its kind as no other book covers all body systems in one volume with demonstration of all key imaging sequences in the commonly diagnosed pathologies Up-to-date sequences described with reasons for choosing a particular sequence for a particular case Simplified relevant MR anatomy preceding each unit Clear high resolution images with appropriate legends Practical hints and tips section included for each pathology - close differentials and what to do next Written in a simple, lucid format and accompanied by typical illustrations to each case MRI of the Whole Body is an essential guide to understanding the 'what's, 'why's and 'how's of applied MR. It will be of particular value to trainee and practicing radiologists, as well as MR radiographers and radiography students.

IDEO founder and Stanford d.school creator David Kelley and his brother Tom Kelley, IDEO partner and the author of the bestselling The Art

of Innovation, have written a powerful and compelling book on unleashing the creativity that lies within each and every one of us. Too often, companies and individuals assume that creativity and innovation are the domain of the "creative types." But two of the leading experts in innovation, design, and creativity on the planet show us that each and every one of us is creative. In an incredibly entertaining and inspiring narrative that draws on countless stories from their work at IDEO, the Stanford d.school, and with many of the world's top companies, David and Tom Kelley identify the principles and strategies that will allow us to tap into our creative potential in our work lives, and in our personal lives, and allow us to innovate in terms of how we approach and solve problems. It is a book that will help each of us be more productive and successful in our lives and in our careers.

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 that 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.

"Now in its Second Edition, this thoroughly illustrated volume is a practical, problem-oriented "how-to" guide to performing and interpreting abdominal and pelvic MRI studies. Practical Guide to Abdominal and Pelvic MRI provides the necessary know-how for optimizing image quality and protocols and describes specific techniques, including MR angiography, MR cholangiopancreatography, MR urography, MRI of the gastrointestinal tract, and obstetrical MRI. A section on interpretation describes MRI appearances of 101 abdominal and pelvic abnormalities, presents differential diagnoses, and offers guidance on interpreting preoperative MRI studies. Additional chapters show normal MRI anatomy, answer frequently asked questions, and demystify MRI acronyms and terminology. This edition includes new imaging techniques and information on the liver, the kidney, and nephrogenic syndrome"--Provided by publisher.

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.