[Books] Liver MRI Correlation With Other Imaging Modalities And Histopathology

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Liver MRI - Shahid M. Hussain - 2014-12-07
The second edition of this very successful book provides a practical approach to liver MRI, with coverage of the most up-to-date MR imaging sequences, normal and variant anatomy and diverse pathologic conditions. It features computer-generated drawings relating clinical concepts to the MRI findings, 2D and 3D reconstructions, systematic (differential) diagnostic information and descriptions of patient management options. MRI findings are correlated to ultrasound, computed tomography, nuclear medicine exams, laboratory findings and histopathology when appropriate. New information is presented on a wide range of topics and more than 50 extra figure pages are included. This book will greatly benefit all professionals interested and involved in imaging, diagnosis and treatment of focal and diffuse liver lesions, including radiologists, gastroenterologists, hepatologists, surgeons, pathologists, MR physicists, radiology and other residents, MR technologists and medical students.

Liver MRI - Shahid M. Hussain - 2007-01-07
This book provides a practical approach for MR imaging of the focal and diffuse liver lesions. Its unique layout is based on state-of-the-art MR imaging sequences, computer-generated drawings, concise figure captions, relevant and systematic (differential) diagnostic information, recent literature references, and patient management possibilities. MR imaging findings are correlated to ultrasound, computed tomography, and pathology when appropriate. This book will greatly benefit all professionals interested and involved in imaging, diagnosis, and treatment of focal and diffuse liver lesions.
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**Liver Imaging** - Ersan Altun - 2015-05-26

"This book provides a practical approach for imaging of focal and diffuse liver lesions based on state-of-the-art MR and CT imaging sequences, multidetector row CT images, 3D reformatted images, breath-hold MRI sequences, and cutting-edge MR 3T images where appropriate, concise but useful figure legends, relevant and systematic (differential) diagnostic information, the latest references to primary literature and clinical evidence, and patient management possibilities"--Provided by publisher.

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This open access book deals with imaging of the abdomen and pelvis, an area that has seen considerable advances over the past several years, driven by clinical as well as technological developments. The respective chapters, written by internationally respected experts in their fields, focus on imaging diagnosis and interventional therapies in abdominal and pelvic disease; they cover all relevant imaging modalities, including magnetic resonance imaging, computed tomography, and positron emission tomography. As such, the book offers a comprehensive review of the state of the art in imaging of the abdomen and pelvis. It will be of interest to general radiologists, radiology residents, interventional radiologists, and clinicians from other specialties who want to update their knowledge in this area.

**MRI of the Liver** - Günther Schneider - 2013-04-17

Recent technological developments have broadened considerably the role of magnetic resonance imaging in the evaluation of liver pathology. Today, MR imaging is not looked upon merely as a problem-solving technique but is widely considered the principal imaging modality for both the detection and accurate diagnosis of focal and diffuse liver disease. Advances in hardware and sequence design and the advent of novel contrast agents with liver-specific properties have contributed towards making MRI of the liver a routine clinical application.

Compared with previous publications on the application of MRI to study the liver, this book stands out in at least three major respects: - It presents in a clear and concise manner the current approaches to routine MRI of the liver, taking account of the hardware and software currently available from the major manufacturers and proposing imaging protocols for each. - A vast number of illustrations describe the pathologic and radiological correlations of the principal focal and diffuse liver diseases. - It presents a practical rationale for the use of contrast agents with liver-specific properties. This book will prove invaluable to radiologists wishing to expand or consolidate their routine approach to MR imaging of the liver.

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Because the liver is a common site of metastatic spread, effective MR imaging of this organ is critically important for patients with cancer as well as those with chronic liver disease. In this issue of MRI Clinics, editors Khaled Elsayes (MD Anderson Cancer Center) and Claude Sirlin (UC San Diego Health’s Liver Imaging Group) bring their considerable expertise to the topic of MR Imaging of Chronic Liver Diseases and Liver Cancer. Top experts in the field cover key topics such as artificial intelligence, diffuse liver disease, LI-RADS, and hepatocarcinogenesis. Provides concise and comprehensive coverage of the issues physicians face every day. Presents the latest information on a timely, focused topic under the leadership of experienced editors in the field. Contains 14 relevant, practice-oriented topics including Chronic liver disease; What the hepatologists, oncologists and surgeons want to know from radiologists; CT techniques, protocols, advancements and the future; Errors and misinterpretations in imaging of chronic liver diseases; and more.

**Liver MRI (2007).** - -

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**Computed Body Tomography with MRI Correlation** - Joseph K. T. Lee - 2006


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Grundlæggende lærebog om CT og MRI og desses anvendelse iforbindelse med
fundamentals of body mri e-book - christopher g. roth - 2016-07-19

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.

magnetic resonance elastography - sudhakar k. venkatesh - 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.

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There is a large and unmet need for diagnostic tool that can be used to characterize chronic liver diseases (CLD). In the earlier stages of CLD, much of the diagnostics involves performing biopsies, which are evaluated by a histopathologist for the presence of e.g. fat, iron, inflammation, and fibrosis. Performing biopsies, however, have two downsides: i) biopsies are invasive and carries a small but non-negligible risk for serious complications, ii) biopsies only represents a tiny portion of the liver and are thus prone to sampling error. Moreover, in the later stages of CLD, when the disease has progressed...
predict parenchymal function. Paper V developed a method for translating DCE-MRI liver function parameters from rats to humans. This translation could be of value when developing new drugs, as a tool for predicting which drugs might cause drug-induced liver injury. In summary, this thesis has shown that multimodal quantitative MR has a bright future for characterizing liver disease from a range of different aspects.

Non-Invasive Characterization of Liver Disease - Markus Karlsson - 2019-12-13

There is a large and unmet need for diagnostic tool that can be used to characterize chronic liver diseases (CLD). In the earlier stages of CLD, much of the diagnostics involves performing biopsies, which are evaluated by a histopathologist for the presence of e.g. fat, iron, inflammation, and fibrosis. Performing biopsies, however, have two downsides: i) biopsies are invasive and carries a small but non-negligible risk for serious complications, ii) biopsies only represents a tiny portion of the liver and are thus prone to sampling error. Moreover, in the later stages of CLD, when the disease has progressed far enough, the ability of the liver to perform its basic function will be compromised. In this stage, there is a need for better methods for accurately measuring liver function. Additionally, measures of liver function can also be used when developing new drugs, as biomarkers for drug-induced liver injury (DILI), which is a serious drug-safety issue. Magnetic resonance imaging (MRI) is a non-invasive medical imaging modality, which have shown much promise with regards to characterizing liver disease in all of the abovementioned aspects. The aim of this PhD project was to develop and validate MR-based methods that can be used to non-invasively characterize liver disease. Paper I investigated if R2* mapping, a MR-method for measuring liver iron content, can be confounded by liver fat. The results show fat does affect R2*. The conclusion was therefore that fat must be taken into account when measuring small amounts of liver iron, as a small increase in R2* could be due to either small amounts of iron or large amounts of fat. Paper II examined whether T1 mapping, which is another MR-method, can be used for staging liver fibrosis. The results of previous research have been mixed; some studies have been very promising, whereas other studies have been less promising. Unfortunately, the results in Paper II belongs to the less promising studies. Paper III focused on measuring liver function by dynamic contrast-enhanced MRI (DCEMRI) using a liver specific contrast agent, which is taken up the hepatocytes and excreted to the bile. The purpose of the paper was to extend and validate a method for estimating uptake and efflux rates of the contrast agent. The method had previously only been applied in health volunteers. Paper II showed that the method can be applied to CLD patients and that the uptake of the contrast agent is lower in patients with advanced fibrosis. Paper IV also used studied liver function with DCE-MRI in patients with primary sclerosing cholangitis (PSC). PSC is a CLD where the bile ducts are attacked by the immune system. When diagnosing PSC patients, it is common to use magnetic resonance choangiopancreatography (MRCP), which is a method for imaging the bile ducts. Paper IV examined if there was any correlation between number and severity of the morphological changes, seen on MRCP, and measures of liver function derived using DCE-MRI. However, the results showed no such correlation. The conclusion was that the results indicates that MRCP should not be used to...
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**Essentials of Body MRI** - William E. Brant - 2012-02-03
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.

**MRI of the Liver** - Aliya Qayyum - 2010-12
Articles in this issue include: MRI of Liver Fat; Cirrhosis, Hepatitis, and Fibrosis; Benign Focal Liver Lesions; Hepatocellular Carcinoma; Diffusion-weighted Imaging and Metastases; Perfusion Imaging: Concepts and Application; Functional MR imaging of Liver: Parametric assessment beyond morphology; MRCP and Biliary Tumors; Current MRCP Techniques for Evaluation of Biliary Disorders; MRI of the Hepatic Vasculature; Liver Iron, MRI assessment (pitfalls & clinical importance); Sequence Optimization and Recognition of Artifacts; Imaging at Higher Field Strength: 3T versus 1.5T; Liver Tumors: Radiological-Pathological Correlation; Tentative: (Molecular) Spectroscopy.
Recent advances in surgical procedures for the management of focal liver diseases have greatly increased the demand for diagnostic accuracy. So far these demands have been only partially met by further technical developments such as colour coded duplex sonography, spiral CT and marked improvements in magnetic resonance imaging. It is becoming increasingly clear that liver specific contrast media are essential for utilizing these technical developments to their fullest advantage in patient care. Against this background, a workshop was held to explore the current methods of diagnostic imaging of the liver and to try and establish a profile for the future liver specific contrast media. The pathologist’s introductory and general overview is followed by chapters on the individual imaging procedures such as ultrasound, CT and MRI, so that each of the three is given the attention it deserves. The book will be of interest to radiologists from the various disciplines, and also those who plan and perform therapies, particularly surgeons and internists.

**Abdominal-Pelvic MRI** - Richard C. Semelka - 2011-09-26
This landmark reference provides the most complete coverage of magnetic resonance imaging of the abdomen and pelvis, with particular emphasis on illustrating benign, malignant, and inflammatory lesions. Organized by anatomic region, the text presents brief descriptions of pathophysiology followed by detailed discussion of characteristics of the relevant organ or system. Extensively updated and revised throughout, the new third edition includes over 2,500 figures, of which more than 500 are all-new, including over 200 3T images presented throughout the organ systems. Two all-new chapters are also included, one discussing MRI in pregnancy, and another on MRI of the Breast.

**Atlas of Multiparametric Prostate MRI** - Joan C. Vilanova - 2017-09-28
This atlas provides a comprehensive, state of the art review of the use of multiparametric MRI (mpMRI) for the imaging of prostate cancer, covering aspects from diagnosis and loco-
the liver and intrahepatic biliary tract as seen on technique after treatment and follow-up. The book contains a wealth of high-resolution images, many of them in color, and displays the anatomical-MRI-pathological correlation whenever appropriate. Readers will find a helpful overview on the current standardized method for reading and reporting on mpMRI, the Prostate Imaging Reporting and Data System (PI-RADS), version 2. Dedicated chapters focus on differential diagnosis and imaging pitfalls, and the inclusion of helpful diagrams and algorithms will further assist in image interpretation, enabling readers to ease and improve their use of mpMRI. Edited and written by very experienced radiologists, pathologists, and urologists; the Atlas of Multiparametric Prostate MRI will serve as a unique source of clinically relevant information and an aid to disease management for radiologists, urologists, pathologists, radiotherapists, and oncologists.

**Atlas of Multiparametic Prostate MRI** - Joan C. Vilanova - 2017-09-28
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**Imaging of the Liver and Intra-hepatic Biliary Tract** - Emilio Quaia - 2020-09-28
This is the first of two volumes that together provide a comprehensive analysis of the embryology, normal anatomy, and pathology of the liver and intrahepatic biliary tract as seen on modern diagnostic imaging techniques. In this volume, readers will find full description of the roles of individual imaging modalities and extensive illustration of the imaging appearances. The authors are world-leading experts in the field, and the book will be an ideal reference for all members of the radiology community, from residents to experts. It will also aid clinicians during their daily practice.

**CT and MRI of the Liver and Biliary System** - Paul M. Silverman - 1990
This is a review of the current state of computed tomography and magnetic resonance imaging in hepatobiliary imaging. It emphasizes a diagnostic approach and differential diagnosis of imaging findings of CT and MRI, and offers full descriptions of current imaging techniques.
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CT & MRI of the Abdomen and Pelvis - Pablo R Ros - 2013-12-23
Now in its Third Edition, this trusted and practical volume in LWW's Teaching File Series offers residents and practicing radiologists a unique opportunity to study alongside the experts in their field. For the first time, CT and MRI of the Abdomen and Pelvis is a hybrid publication, with a new paperback format and accompanying web content that includes a wealth of case studies users can access from their laptop, tablet, or mobile device. The book is useful both as a quick consult or study aid for anyone preparing for Board examinations in Radiology and other specialties where knowledge of CT and MRI of the abdomen and pelvis are required.

Contrast-Enhanced Ultrasound of Liver Diseases - L. Solbiati - 2012-12-06
In the last few years, the development of sonographic contrast agents - or "microbubbles" - has stimulated increasingly intensive studies on the relationships between ultrasound and contrast media. As a result, "contrast-specific" hardware and software systems have been introduced by different ultrasound manufacturers with impressive speed. This has finally led to the birth of a very new imaging modality - "contrast-enhanced sonography" (CEUS). Since 1999, the introduction of second-generation contrast agents has represented a decisive step towards the extensive clinical use of CEUS and has simultaneously made obsolete most, if not all, scientific publications available so far. This book is, to our knowledge, the first to deal entirely with second generation contrast agents and the most updated contrast-specific software for noncardiologic uses. The reasons why the liver has been chosen as the only "target" of the book are easily understandable by radiologists and hepatologists alike. The study of vascularity is the only purpose of CEUS, and the liver has a unique vascular system, with two different inflow systems resulting in a single outflow. Furthermore, the pathologically different focal liver lesions (FLLs) are mostly characterized by different "models" of vascularity: CEUS can mimic contrast enhanced computed tomography and magnetic resonance imaging, basing differential diagnosis on the morphological and temporal characteristics of enhancement, but with the additional unique advantage of the study being done in real-time.

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**Abdominal and Pelvic MRI** - A. Heuck - 2012-12-09
While MRI has proved itself to be an excellent diagnostic noninvasive modality for imaging of the brain, medulla, and musculoskeletal system due to its high intrinsic contrast resolution and tissue characterisation potential based on the judicious application of specific sequences, this has not been the case in the abdomen and pelvis. The reasons are the long exposure time and the lower spatial resolution, inherent to MRI. However, during recent years considerable process has been achieved in MRI of the abdominal and pelvic organs due to the development of new and more rapid imaging sequences and the routine clinical application of specific magnetic resonance contrast media. Consequently for some anatomical areas such as the female genital organs and the biliary system MRI is already the best performing morphological diagnostic modality. However, the question arises as to whether MRI, given its performance capabilities, should not also be considered a primary diagnostic modality for the study of parenchymal organs like the liver, spleen, and pancreas, and not merely as a complementary modality to solve residual problems after ultrasonography and computed tomography have been performed. Although the future role of MRI in respect of the gastrointestinal tube itself is still somewhat unclear, some possibilities for routine clinical use are becoming visible even in this abdominal field.

**CT and MRI of the Abdomen and Pelvis** - Pablo R. Ros - 2007
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.

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**Hepatobiliary Imaging, An Issue of Magnetic Resonance Imaging Clinics of North America**, - Peter S. Liu - 2014-08-12
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**Quantitative Evaluation of Contrast Agent Dynamics in Liver MRI** - Nils Dahlström - 2010
ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Europium. The editors have built Lanthanoid Series Elements—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Europium in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Lanthanoid Series Elements—Advances in Research and Application: 2013 Edition has been produced by the world’s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.
During the course, the topics are discussed in
Dynamics in Liver MRI - Nils Dahlström - 2010

Computed Body Tomography with MRI Correlation - Edward Y. Lee - 2020
Authoritative, clinically oriented, and unique in the field, Computed Body Tomography with MRI Correlation, 5th Edition is your one-stop reference for current information on CT and MRI in all aspects of adult and pediatric congenital and acquired disorders. This comprehensive text uses an easy-to-navigate format to deliver complete, well-illustrated coverage of the most current CT and MRI techniques for thorax, abdomen, pelvis and musculoskeletal systems in both adult and pediatric populations. The fully revised 5th Edition is a complete reference for residents, fellows, and attending radiologists, as well as clinicians in other specialties who are interested in CT and MRI evaluation of both common and less common disorders encountered in daily practice -- Provided by the publisher.

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Diseases of the abdomen and Pelvis 2010-2013 - Jürg Hodler - 2010-12-28
The International Diagnostic Course in Davos (IDKD) offers a unique learning experience for imaging specialists in training as well as for experienced radiologists and clinicians wishing to be updated on the current state of the art and the latest developments in the fields of imaging and image-guided interventions. This annual course is focused on organ systems and diseases rather than on modalities. This year’s program deals with diseases of the abdomen and pelvis. During the course, the topics are discussed in group workshops and in plenary sessions with lectures by world-renowned experts and teachers. While the workshops present state-of-the-art summaries, the lectures are oriented towards future developments. Accordingly, this Syllabus represents a condensed version of the contents presented under the 20 topics dealing with imaging and interventional therapies in abdominal and pelvic diseases. The topics encompass all the relevant imaging modalities including conventional X-rays, computed tomography, clear medicine, ultrasound and magnetic resonance angiography, as well as image-guided interventional techniques. The Syllabus is designed to be an “aide-mémoire” for the course participants so that they can fully concentrate on the lecture and participate in the discussions without the need of taking notes.

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The International Diagnostic Course in Davos (IDKD) offers a unique learning experience for imaging specialists in training as well as for experienced radiologists and clinicians wishing to be updated on the current state of the art and the latest developments in the fields of imaging and image-guided interventions. This annual course is focused on organ systems and diseases rather than on modalities. This year’s program deals with diseases of the abdomen and pelvis. During the course, the topics are discussed in group workshops and in plenary sessions with lectures by world-renowned experts and teachers. While the workshops present state-of-the-art summaries, the lectures are oriented towards future developments. Accordingly, this Syllabus represents a condensed version of the contents presented under the 20 topics dealing with imaging and interventional therapies in abdominal and pelvic diseases. The topics encompass all the relevant imaging modalities including conventional X-rays, computed tomography, clear medicine, ultrasound and magnetic resonance angiography, as well as image-guided interventional techniques. The Syllabus is designed to be an “aide-mémoire” for the course participants so that they can fully concentrate on the lecture and participate in the discussions without the need of taking notes.

Diffusion MRI Outside the Brain - Antonio Luna - 2011-11-22
Recent advances in MR technology permit the
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.

**Diffusion MRI Outside the Brain** - Antonio Luna - 2011-11-22

Intravoxel incoherent motion (IVIM) refers to translational movements which within a given voxel and during the measurement time present a distribution of speeds in orientation and/or amplitude. The concept was introduced in 1986 together with the foundation of diffusion MRI because it had been realized that flow of blood in capillaries (perfusion) would mimic a diffusion process and impact diffusion MRI measurements. IVIM-based perfusion MRI, which does not require injection of any tracer or contrast agent, has been first investigated in the brain, but is now experiencing a remarkable revival for applications throughout the body, especially for oncologic applications, from diagnosis to treatment monitoring. This book addresses a number of highly topical aspects of the field from leading authorities, introducing the concepts behind IVIM MRI, outlining related methodological issues, and summarizing its current usage and potential for clinical applications. It also presents future research directions, both in terms of methodological development and clinical application fields, extending to new, non-perfusion applications of IVIM MRI, such as virtual MR elastography.

**Intravoxel Incoherent Motion (IVIM) MRI** - Denis Le Bihan - 2018-11-05

Drug Discovery and Evaluation - H. Gerhard Vogel - 2006

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**Clinical MRI of the Abdomen** - Nicholas C.ourtsoyiannis - 2011-02-04
This volume, which explains why, when, and how abdominal MRI should be used, focuses in particular on the most recent developments in the field. After introductory chapters on technical considerations, protocol optimization, and contrast agents, MRI of the various solid and hollow viscera of the abdomen is addressed in a series of detailed chapters. Relevant clinical information is provided, and state of the art protocols presented. With the help of numerous high-quality illustrations, normal, variant, and abnormal imaging findings are described and potential artefacts highlighted. Differential diagnosis is given extensive consideration, and comparisons are made with competing methodologies when relevant. Each of the chapters is rounded off by a section on "pearls and pitfalls". The closing chapters focus on findings in the pediatric abdomen, advances in MRI specifically relevant to cancer patients, and the use of abdominal MRI at 3 Tesla. This book, written by leading experts, will be of value to all who are involved in learning, performing, interpreting, and reporting abdominal MRI examinations.

**Ultrasoundography of the Pancreas** - Mirko D'Onofrio - 2012-03-08
Ultrasoundography (US) has long been considered an important diagnostic imaging modality for investigation of the pancreas despite certain significant and well-known limitations. Indeed, in many countries US represents the first step in the diagnostic algorithm for pancreatic pathologies. Recent years have witnessed major advances in conventional, harmonic, and Doppler imaging. New technologies, softwares, and techniques, such as volumetric imaging, enhancement quantification, and fusion imaging, are increasing the diagnostic capabilities of US. The injection of microbubble contrast agents allows better tissue characterization with definitive differentiation between solid and cystic lesions. Contrast-enhanced US improves the characterization of pancreatic tumors, assists in local and liver staging, and can offer savings in both time and money. Acoustic radiation force impulse (ARFI) imaging is a promising new US method to test, without manual compression, the mechanical strain properties of deep tissues. Furthermore, the applications and indications for interventional, endoscopic, and intraoperative US have undergone significant improvement and refinement. This book provides a complete overview of all these technological developments and their impact on the assessment of pancreatic pathologies. Percutaneous, endoscopic, and intraoperative US of the pancreas are discussed in detail, with precise description of findings and with informative imaging (CT and MRI) and pathologic correlations.
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MRI - Angshul Majumdar - 2018-09-03
The field of magnetic resonance imaging (MRI) has developed rapidly over the past decade, benefiting greatly from the newly developed framework of compressed sensing and its ability to drastically reduce MRI scan times. MRI: Physics, Image Reconstruction, and Analysis presents the latest research in MRI technology, emphasizing compressed sensing-based image reconstruction techniques. The book begins with a succinct introduction to the principles of MRI and then: Discusses the technology and applications of T1rho MRI Details the recovery of highly sampled functional MRIs Explains sparsity-based techniques for quantitative MRIs Describes multi-coil parallel MRI reconstruction techniques Examines off-line techniques in dynamic MRI reconstruction Explores advances in brain connectivity analysis using diffusion and functional MRIs Featuring chapters authored by field experts, MRI: Physics, Image Reconstruction, and Analysis delivers an authoritative and cutting-edge treatment of MRI reconstruction techniques. The book provides engineers, physicists, and graduate students with a comprehensive look at the state of the art of MRI.

Imaging of the Liver and Intra-hepatic Biliary Tract - Emilio Quaia - 2020-10-05
This is the second of two volumes that together provide a comprehensive analysis of the embryology, normal anatomy, and pathology of the liver and intrahepatic biliary tract as seen on modern diagnostic imaging techniques. In this second volume, readers will find comprehensive description and illustration of the imaging appearances of tumoral pathologies, both in the “normal liver” and in the context of chronic liver disease and liver cirrhosis. In addition, the imaging findings in relation to different treatment approaches are presented, with extensive coverage of imaging of tumor response and post-treatment changes. The authors are world-leading experts in the field, and the book will be an ideal reference for all members of the radiology community, from residents to experts. It will also aid clinicians during their daily practice.
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**Contrast-Enhanced Ultrasound Imaging of Hepatic Neoplasm**s - Wen-Ping Wang - 2021-06-26
This book aims to provide reader an overview of clinical applications of contrast-enhanced ultrasound in hepatic neoplasms diagnosis. Ultrasound images and pathological results of different hepatic neoplasms are introduced in the chapters, including benign liver tumors, malignant liver tumors, hepatic carcinoma, intrahepatic cholangiocarcinoma, rare liver benign and malignant neoplasms, regenerative nodules, inflammatory pseudotumor, parasite liver lesions, and hepatitis peliosis, etc. The combination of ultrasound findings with final histopathological results then discover the potential mechanical of contrast enhancement changes. With the development of ultrasound technology and widely application of ultrasound contrast agents (USCA) in recent decades, contrast-specific imaging modalities have been developed in combination with USCA and a low mechanical index (MI), allowing continuous real-time grey scale imaging. The updated contrast-specific software for liver diseases and hepatic tumors diagnosis has also been described described in detail. With high-resolution contrast ultrasound images during arterial phase, portal venous phase and late phase, author wants to show the whole dynamic wash-in and wash-out process of the different focal liver lesions. This book is an invaluable resource for radiologists, hepatologists and oncologists in their everyday clinical practice.

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**Reading MRI of the Prostate** - Ananya Panda - 2020-01-01
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**Textbook of Gastrointestinal Radiology E-Book** - Richard M. Gore - 2021-06-03
Ideal for both trainees and experienced practitioners, Textbook of Gastrointestinal Radiology, 5th Edition, provides detailed, concise, well-illustrated information on all aspects of GI imaging—now in a single volume for convenient point-of-care reference. Drs. Richard M. Gore and Marc S. Levine lead a team of world-renowned experts to provide unparalleled coverage of all major gastrointestinal disorders as well as the complete scope of abdominal imaging modalities. Every chapter has been thoroughly updated, and new authors provide fresh perspectives on complex imaging topics. Offers streamlined, actionable content in a new single-volume format for quicker access at the point of care. Highlights the complete scope of imaging modalities including the latest in MDCT, MRI, diffusion weighted and perfusion imaging, ultrasound, PET/CT, PET/MR, plain radiographs, MRCP, angiography, barium studies, and CT and MR texture analysis of abdominal and pelvic malignancies. Features more than 1,100 state-of-the-art images, with many in full color. Discusses the imaging features of abdominal and pelvic personalized medicine, as well as the relationship of abdominal and pelvic malignancies to cancer genomics and oncologic mutations that guide novel molecular, targeted and immunotherapies. Provides a diagnostic approach to incidentally discovered hepatic, pancreatic, and splenic lesions now commonly found on cross-sectional imaging.

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