

## *Ct And Mri Of The Abdomen And Pelvis A Teaching File Radiology Teaching File Series*

**Renowned for its superb illustrations and highly practical information, the third volume of this classic reference reflects the very latest in state-of-the-art imaging technology. Together with Volumes 1 and 2, this compact and portable book provides a highly specialized navigational tool for clinicians seeking to master the ability to recognize anatomical structures and accurately interpret CT and MR images. Highlights of Volume 3: New CT and MR images of the highest quality Didactic organization using two-page units, with radiographs on one page and full-color illustrations on the next Concise, easy-to-read labeling on all figures Color-coded, schematic diagrams that indicate the level of each section Sectional enlargements for detailed classification of the anatomical structure Comprehensive, compact, and portable, this popular book is ideal for use in both the classroom and clinical setting.**

**\*\*\*IF YOU WANT TO UPDATE THE INFORMATION ON YOUR TITLE SHEET, THEN YOU MUST UPDATE COPY IN THE "PRODUCT INFORMATION COPY" FIELD. COPY IN THE "TIPSHEET COPY" FIELD DOES NOT APPEAR ON TITLE SHEETS.\*\*\*** Portable reference offers radiographic technologists, junior residents, medical students, primary care providers, and physical therapists quick access to high quality images and concise discussions of the 200 most common pathologies visualized on CT and MRI for use at the point of care. Market / Audience Primary Market: Radiologic Technologists (7,500+ new rad techs per year in the USA); book would be recommended in RadTech programs, and required when there is a CT/MRI Pathology course or specialty. This would also appeal to students prepping for the ARRT exam. Junior Residents and Medical Students (approx. 152,000 each year) Primary Care Providers (MDs, PAs, NPs) Physical Therapists About the Book **CT & MRI Pathology: Second Edition** is a portable reference of more than 200 common pathologies seen in CT and on MRI. It concisely reviews the pathology, etiology, signs and symptoms, imaging characteristics, treatment, and prognosis for each disease/disorder and includes crisp, high-quality images to accompany every discussion. New to the second edition are an additional 90 disease topics - bringing the total to 200, a new design, and 8 pages of color images. There have been a number of technological changes in this field in the past five years since the last edition published. We can now see images with thinner slices, multiple axis, and a transition away from nuclear medicine as CT and MRI technology has been enhanced. As an example, five years ago, 16-slice CT scans were the norm; now it's 64-slice - this is a higher resolution and allows for much better treatment and diagnosis. The new edition will include state of the art images for each pathology covered. Key Selling Features 200 common pathologies seen on CT & MRI CD-ROM will contain 400 high-quality images, many unique to the CD. Organized by body system for easy reference. Portable for quick lookups at the point of care 400+ state of the art CTs and MRIs with concise explanations of each pathology

**Written by a radiographic technologist and a radiologist About the Authors Michael L. Grey, MS, RT(R) (MR) (CT) is Assistant Professor of Radiologic Sciences at Southern Illinois University (Carbondale, IL). He actively teaches review courses for rad techs certifying in MR and CT. Jagan M. Ailani, MD is a radiologist and formerly Clinical Professor of Radiology and Community medicine at Southern Illinois University (Carbondale, IL).**

**Cross sectional anatomy is now a normal and vital part of the diagnostic process. This atlas of cross sectional CT and MRI images is written to give the medical student and trainee radiologist a thorough knowledge of normal anatomy in cross section. The book features clearly labelled images taken in all three planes, accompanied by anatomical diagrams to enhance understanding.**

**This book, featuring more than 180 high spatial resolution images obtained with state-of-the-art MDCT and MRI scanners, depicts in superb detail the anatomy of the temporal bone, recognized to be one of the most complex anatomic areas. In order to facilitate identification of individual anatomic structures, the images are presented in the same way in which they emanate from contemporary imaging modalities, namely as consecutive submillimeter sections in standardized slice orientations, with all anatomic landmarks labeled. While various previous publications have addressed the topic of temporal bone anatomy, none has presented complete isotropic submillimeter 3D volume datasets of MDCT or MRI examinations. The Temporal Bone MDCT and MRI Anatomy offers radiologists, head and neck surgeons, neurosurgeons, and anatomists a comprehensive guide to temporal bone sectional anatomy that resembles as closely as possible the way in which it is now routinely reviewed, i.e., on the screens of diagnostic workstations or picture archiving and communication systems (PACS).**

**Atlas of Small Animal CT & MRI is a highly illustrated diagnostic imaging guide to common clinical disorders of dogs and cats. Contains over 3,000 high quality CT, MRI and related diagnostic images Offers a unique approach emphasizing comparative imaging and pathologic correlation Focuses on important imaging features relevant to imaging diagnosis of disease in dogs and cats Written by internationally renowned experts in the field**

**The updated 5th edition of this easy-to-read, comprehensive resource is now in full color to provide you with enhanced understanding of this highly visual field. Clinically focused, it provides quick access to step-by-step descriptions of all MR and CT imaging applications in every anatomic area, with particular emphasis on the revolutionary multislice CT. Use the latest sectional imaging approaches to accurately diagnose a full range of conditions. Any radiologist will find this book indispensable for CT and MR imaging. Includes both MR and CT so you can see correlated images for all areas of the body. Covers interventional procedures to help you apply image-guided techniques. Presents material with a practical, clinical focus, featuring clinical manifestations for most entities. Shows you how to interpret findings from the latest cutting-edge techniques-multislice CT, 3-Tesla MRI, PET/CT, and more. Presents new-generation multislice CT images throughout the book to help**

**you interpret findings from this revolutionary new imaging modality. Includes a completely updated image-guided interventions chapter, plus five new chapters-Liver Transplants; Male Pelvis; Female Pelvis; Evaluation of the Airway; and Contrast Nephrology-to keep you up to speed on the latest approaches. Features a new full-color format for a more user-friendly resource. Provides digital-quality images throughout for enhanced detail. Over the past decade, PET-CT has achieved great success owing to its ability to simultaneously image structure and function, and show how the two are related. More recently, PET-MRI has also been developed, and it represents an exciting novel option that promises to have applications in oncology as well as neurology. The first part of this book discusses the basics of these dual-modality techniques, including the scanners themselves, radiotracers, scan performance, quantitation, and scan interpretation. As a result, the reader will learn how to perform the techniques to maximum benefit. The second part of the book then presents in detail the PET-CT and PET-MRI findings in cancers of the different body systems. The final two chapters address the use of PET/CT in radiotherapy planning and examine areas of controversy. The authors are world-renowned experts from North America, Europe, and Australia, and the lucid text is complemented by numerous high-quality illustrations.**

**CT and MRI of the Whole Body** Mosby

**[TEXTBOOK OF RADIOLOGY FOR CT AND MRI TECHNICIANS WITH MCQS.](#)**

**[Practical Differential Diagnosis for CT and MRI](#)**

**[CT and MRI of the Abdomen and Pelvis](#)**

**[Brain Imaging with MRI and CT](#)**

**[Sectional Anatomy by MRI and CT E-Book](#)**

**[Diagnostic and Interventional Imaging](#)**

**[Looking Within](#)**

**[Liver Imaging](#)**

**[Diagnostic Imaging of the Head and Neck](#)**

**[Department of Health](#)**

**[Introduction to Medical Imaging](#)**

This atlas comprehensively describes the application of computed tomography (CT) and magnetic resonance (MR) imaging in real-world scenarios using 192 illustrative clinical cases. These imaging techniques are revolutionizing the diagnostic and therapeutic approach for cardiovascular patients and are progressively becoming viable sub-specialties among radiologists and cardiologists. Clinical Atlas of Cardiac and Aortic CT and MRI features clinically relevant case-based examples of how CT and MR imaging techniques can be applied to identify the pathological features of a range of acquired and

congenital heart diseases. Using more than 1000 high-quality figures of distinctive CT and MR imaging features of most cardiovascular diseases, both acquired and congenital, it therefore provides a valuable resource for both specialist and non-specialist radiology/cardiology practitioners seeking to develop a deep understanding of how to recognize the features of a variety of heart diseases using CT and MR imaging techniques.

Practical Differential Diagnosis in CT and MRI is a one-stop resource for the differential diagnosis of common and rare radiologic findings and conditions in all regions of the body. For each finding and diagnosis, the book provides a complete list of differential diagnoses as well as the features that will help the clinician differentiate diseases with similar findings. Highlights: Concise descriptions aid the identification of key radiologic signs Easy-to-use tables and bullet-point lists facilitate rapid review of important information about findings, differentiating features, and disease entities This pocket-sized book is ideal for residents preparing for board examinations as well as for radiologists in practice.

First published in 1991, Human Sectional Anatomy set new standards for the quality of cadaver sections and accompanying radiological images. Now in its third edition, this unsurpassed quality remains and is further enhanced by some useful new material. As with the previous editions, the superb full-colour cadaver sections are compared with CT and MRI images, with accompanying, labelled line diagrams. Many of the radiological images have been replaced with new examples, taken on the most up-to date equipment to ensure excellent visualisation of the anatomy. Completely new page spreads have been added to improve the book's coverage, including images taken using multidetector CT technology, and some beautiful 3D volume rendered CT images. The photographic material is enhanced by useful notes, extended for the third edition, with details of important anatomical and radiological features.

The highly anticipated 4th edition of this classic reference is even more relevant and accessible for daily practice. A sure grasp of cross sectional anatomy is essential for accurate radiologic interpretation, and this atlas provides exactly the information needed in a practical, quick reference format. Color-coded labels for nerves, vessels, muscles, bone tendons, and ligaments facilitate accurate identification of key anatomic structures. Carefully labeled MRIs for all body parts, as well as schematic diagrams and concise statements, clarify correlations between bones and tissues. CT scans for selected body parts enhance anatomic visualization. More than 2,300 state-of-the-art images can be viewed in three standard planes: axial, coronal, and sagittal.

Value for money is not being achieved across all trusts in the planning, procurement and use of 'high value equipment', such as CT, MRI scanners and Linear Accelerator Machines (linacs). Trusts are not collaborating to purchase machines and they are not getting the best prices. Around half of all CT and MRI scanners and linac machines are due for replacement within three years. Were trusts to replace existing machines, they would collectively need to find £460 million within three years. The number of diagnostic scans carried out CT and MRI machines has increased almost threefold and radiotherapy treatment sessions have increased two and a half fold over the last ten years. Many trusts face resource constraints in meeting increasing demand, with vacancy rates for consultant radiologists of around seven per cent and high rates of attrition for people training to become therapeutic radiographers delivering radiotherapy treatment. There is wide variation in utilisation rates of MRI and CT scanning machines. However, because there is no central collection of data, individual trusts cannot compare their utilisation rates and costs with other trusts in order to improve efficiency. Trusts report their average costs per scan, but they do so differently. In 2008-09, the average cost per CT scan ranged from £54 to £268; and, for MRI, it was between £84 and £472 per scan. However, for radiotherapy, the Department of Health has developed a dataset which will enable comparisons to be made about efficiency and utilisation between radiotherapy treatment centres.

Although many things can go wrong in the brain, this book also shows that our brain is strong. It highlights the key findings that can be seen on magnetic resonance imaging (MRI) and computed tomography (CT) scans, including those related to normal brain aging and common diseases such as brain infarcts, fractures of the skull as well as fractures and tumors of the vertebral column. It offers insights into brain MRI and CT scans, enabling readers to interpret the key findings.

This book covers the cross-sectional imaging of congenital heart diseases, and features a wealth of relevant CT and MRI images. Important details concerning anatomy, physiology, embryology and management options are discussed, and the key technical aspects of performing the imaging are explained step by step. Written by a team of respected authors, the book is richly illustrated and supplemented with access to a number of clinical videos. Intended to provide quick and reliable access to high-quality MRI and CT images of frequently encountered congenital and structural heart abnormalities, the book offers a go-to guide for imaging physicians, helping them overcome the steep learning curve for pediatric cardiac imaging.

The second in a four-book series, covering the advanced imaging exams--this time CT and MRI; this is the only reference available to serve as both a study guide and a reliable method for documenting competency as dictated by the new ARRT competency requirements. Accurately demonstrates how to perform competency exercises and the steps necessary to document competency in the exercises. Incorporate ARRT sample checklists.

[A Teaching File](#)

[Practical Textbook of Cardiac CT and MRI](#)

[MRI and CT of the Female Pelvis](#)

[A Pocket Guide to Medical Imaging](#)

[Diagnostic Imaging](#)

[MRI and CT Atlas of Correlative Imaging in Otolaryngology](#)

[MRI with CT Correlation](#)

[Physics, Engineering and Clinical Applications](#)

[This is Our Brain](#)

[MRI with CT & PET Correlations](#)

[Normal Findings in CT and MRI](#)

The thoroughly revised, updated Fourth Edition of this classic reference provides authoritative, current guidelines on chest imaging using state-of-the-art technologies, including multidetector CT, MRI, PET, and integrated CT-PET scanning. This edition features a brand-new chapter on cardiac imaging. Extensive descriptions of the use of PET have been added to the chapters on lung cancer, focal lung disease, and the pleura, chest wall, and diaphragm. Also included are recent PLOPED II findings on the role of CT angiography and CT venography in detecting pulmonary embolism. Complementing the text are 2,300 CT, MR, and PET scans made on the latest-generation scanners.

Most imaging books are ordered according to underlying etiology. However, in real life clinical practice, radiologists usually make their differential diagnoses according to the image patterns, as the etiology is often unknown. Brain Imaging with MRI and CT presents over 180 disease processes and normal variants, grouping entities by these basic patterns to accentuate differential diagnostic features. High quality CT and MRI scans show multiple typical and distinguishing images for each entity. Common and unusual clinical scenarios are described, including dilated perivascular spaces, capillary teleangiectasia, Susac's syndrome and desmoplastic infantile ganglioglioma. Both basic and advanced imaging techniques are used, reflecting the reality of clinical practice. This image-focused book emphasises the most pertinent clinical information relevant to the diagnostic process. Trainee and practising radiologists will find Brain Imaging with MRI and CT an invaluable and clinically relevant tool for learning and teaching.

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.

Recognized as one of the standards in the radiological literature, this indispensable text/atlas details the practical applications of these two imaging modalities to a wide range of neurodiagnostic problems. The book is expanded to include spine radiology, covering degenerative diseases, trauma, anomalies, tumors, and much more. In addition, the latest radiologic procedures including Magnetic Resonance Angiography (MRA), helical CT, and spectroscopy have been incorporated throughout.

This volume provides a comprehensive and up-to-date account of the use of MRI and CT to identify and characterize developmental anomalies and acquired diseases of the female genital tract. Both benign and malignant diseases are considered in depth, and detailed attention is also paid to normal anatomic findings and variants. Further individual chapters focus on the patient with pelvic pain and the use of MRI for pelvimetry during pregnancy and the evaluation of fertility. Compared with the first edition, chapters have been either newly written by different authors or updated to reflect intervening progress; in addition, imaging of the placenta is now covered. Throughout, emphasis is placed on the most recent diagnostic and technical advances, and the text is complemented by many detailed and informative illustrations. All of the authors are acknowledged experts in diagnostic imaging of the female pelvis, and the volume will prove an invaluable aid to everyone with an interest in this field.

Looks at all available imaging methods for head and neck cancer, highlighting the strengths and weaknesses of each method.

Looking Within describes a family of magical machines that allow doctors to see within the living body without having to slice it open. The book presents a vitally important branch of medicine that combines cutting-edge technologies with clinical applications that can spell the difference between life and death for patients.

Now more streamlined and focused than ever before, the 6th edition of CT and MRI of the Whole Body is a definitive reference that provides you with an enhanced understanding of advances in CT and MR imaging, delivered by a new team of international associate editors. Perfect for radiologists who need a comprehensive reference while working on difficult cases, it presents a complete yet concise overview of imaging applications, findings, and interpretation in every anatomic area. The new edition of this classic reference — released in its 40th year in print — is a must-have resource, now brought fully up to date for today's radiology practice. Includes both MR and CT imaging applications, allowing you to view correlated images for all areas of the body. Coverage of interventional procedures helps you apply image-guided techniques. Includes clinical manifestations of each disease with cancer staging integrated throughout. Over 5,200 high quality CT, MR, and hybrid technology images in one definitive reference. For the radiologist who needs information on the latest cutting-edge techniques in rapidly changing imaging technologies, such as CT, MRI, and PET/CT, and for the resident who needs a comprehensive resource that gives a broad overview of CT and MRI capabilities. Brand-new team of new international associate editors provides a unique global perspective on the use of CT and MRI across the world. Completely revised in a new, more succinct presentation without redundancies for faster access to critical content. Vastly expanded section on new MRI and CT technology keeps you current with continuously evolving innovations.

[CT and MRI in Congenital Heart Diseases](#)

[Ct & Mri Protocol](#)

[Computed Tomography and Magnetic Resonance of the Thorax](#)

[CT & MRI Pathology: A Pocket Atlas, Second Edition](#)

[Procedures and Documentation for CT and MRI](#)

[Cranial MRI and CT](#)

[Managing high value capital equipment in the NHS in England](#)

[CT and MRI of the Whole Body](#)

[Cross Sectional Anatomy CT and MRI](#)

[Temporal Bone CT and MRI Anatomy](#)

[A Practical Guide](#)

This open access book focuses on diagnostic and interventional imaging of the chest, breast, heart, and vessels. It consists of a remarkable collection of contributions authored by internationally respected experts, featuring the most recent diagnostic developments and technological advances with a highly didactical approach. The chapters are disease-oriented and cover all the relevant imaging modalities, including standard radiography, CT, nuclear medicine with PET, ultrasound and magnetic resonance imaging, as well as imaging-guided interventions. As such, it presents a comprehensive review of current knowledge on imaging of the heart and chest, as well as thoracic interventions and a selection of "hot topics". The book is intended for radiologists, however, it is also of interest to clinicians in oncology, cardiology, and pulmonology.

The acclaimed pocket atlas of the most common pathologic conditions seen on CT and MRI – more essential than ever, with new images and cases Designed for quick look-up at the point of care, this concise handbook provides technologists and students with CT and MRI findings of 200 pathologic conditions most often seen in day-to-day practice, along with pertinent clinical information. Each pathology listed has a single page of text accompanied by MRI and/or CT images, often providing multiple perspectives of the same pathology. The text includes a description of etiology, epidemiology, signs and symptoms, imaging characteristics, for CT and MRI, treatment, and prognosis statements. The book also includes a valuable opening section on the Principles of Imaging in Computed Tomography and Magnetic Resonance Imaging and an informative section on Contrast Media. Designed for portability and ease of use, this handbook enables technologists to quickly check pathologic imaging findings and essential clinical information without having to refer to large, heavy textbooks

"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.

As the ideal introductory textbook for medical students, junior doctors, trainee radiologists, and practising clinicians, this new edition of Diagnostic Imaging explains the principles of interpretation of all forms of imaging, offering a balanced account of all the modalities available, explaining each technique and when to use it. Organised by body system and covering all anatomical regions, Armstrong, Wastie and Rockall: explain how to interpret images provide guidelines for interpreting images discuss common diseases and the signs that can be seen using each imaging modality illustrate clinical problems with normal and abnormal images assist diagnosis by covering normal images as well as those for specific disorders show all imaging modalities used in a clinical context The authors cover use of plain film, ultrasound, computed tomography, magnetic resonance imaging, radionuclide imaging and interventional radiology, with high quality illustrations and images. What's new for the 6th edition? Additional new sections and expanded sections, following reviewer feedback Updated throughout to ensure recommendations and



illustrations reflect modern ultrasound CT, MRI, and nuclear medicine (including PET) practice Key points and bullet points to aid learning Designed for busy medical students, The Radiology Handbook is a quick and easy reference for any practitioner who needs information on ordering or interpreting images. The book is divided into three parts: - Part I presents a table, organized from head to toe, with recommended imaging tests for common clinical conditions. - Part II is organized in a question and answer format that covers the following topics: how each major imaging modality works to create an image; what the basic precepts of image interpretation in each body system are; and where to find information and resources for continued learning. - Part III is an imaging quiz beginning at the head and ending at the foot. Sixty images are provided to self-test knowledge about normal imaging anatomy and common imaging pathology. Published in collaboration with the Ohio University College of Osteopathic Medicine, The Radiology Handbook is a convenient pocket-sized resource designed for medical students and non radiologists.

Doody Rating: 4 stars: This is the 1st edition of the book Cross Sectional Anatomy CT and MRI. The text is comprehensive, updated as per the present day requirements in the subject of radiology. The book has 19 chapters. Each chapter has CT and MRI images in three planes. These images are accompanied by colour diagrams for better understanding of anatomy. Different structures are labelled on these colour images. CT and MRI images of angiography are also included in the book. The first chapter deals with brain. Next 18 chapters deal with different regions of body namely skull, orbit, para nasal sinuses, temporomandibular joint, neck, spine, chest, abdomen, pelvis, shoulder, upper limb, lower limb and blood vessels of upper and lower limbs. A comprehensive index is given at last.

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

The key for any beginning radiologist who wishes to recognize pathological findings is to first acquire an ability to distinguish them from normal ones. This outstanding guide gives beginning radiologists the tools they need to systematically approach and recognize normal MR and CT images. Highlights include: \* Reference-quality images from the author's own teaching files show all standard normal findings as seen in CT and MRI \* Checklists in each section offer the reader a systematic way to approach the images \* Thorough guidelines to help beginning radiologists dictate their reports \* Lists of standard measurements and tips for ruling out pathology

[Pocket Atlas of Sectional Anatomy, Volume 3: Spine, Extremities, Joints](#)

[CT & MRI of the Abdomen and Pelvis](#)

[Computed Tomography & Magnetic Resonance Imaging Of The Whole Body E-Book](#)

[The Radiology Handbook](#)

[Computed Tomography and Magnetic Resonance Imaging](#)

[How X-Ray, CT, MRI, Ultrasound, and Other Medical Images Are Created, and How They Help Physicians Save Lives](#)

[Computed Tomography and Magnetic Resonance Imaging of the Whole Body](#)

[MRI and CT of the Cardiovascular System](#)

[Clinical Atlas of Cardiac and Aortic CT and MRI](#)

[Imaging of Head and Neck Cancer](#)

This atlas addresses controversies on imaging modalities for ENT. The relative merits of MRI and CT imaging for particular areas and specific pathologies are discussed. Using a large number of images in both modalities of normal anatomy and pathologies, this should be a useful aid to diagnosis for both radiologists and ENT specialists.

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.

A single-authored, clinically oriented text on imaging of the head-and-neck, frequently a difficult area for radiology residents and general radiologists to master. Readers will find key diseases highlighted and a guide to differential diagnosis of various conditions. Though the primary image focus is on MRI, correlations with CT and PET images and strong coverage of anatomic variants--to distinguish those from the presence of disease--are major strengths of the book. Other features include excellent image quality, diagrams and tables. While this text does not replace the need for a comprehensive text, it should be an essential resource at the reading station and on rotation.

This up-to-date textbook comprehensively reviews all aspects of cardiac CT and MRI and demonstrates the value of these techniques in clinical practice. A wide range of applications are considered, including imaging of atherosclerotic and non-atherosclerotic coronary artery disease, coronary revascularization, ischemic heart disease, non-ischemic cardiomyopathy, valvular heart disease, cardiac tumors, and pericardial disease. The numerous high-quality images illustrate how to interpret cardiac CT and MRI correctly for the purposes of diagnosis, treatment planning, and follow-up. Helpful summarizing sections at the end of every chapter will facilitate rapid retrieval of information. This book will be of great value to radiologists and cardiologists seeking a reliable guide to the optimal use of cardiac CT and MRI in real clinical situations. An additional feature is the provision of QR codes allowing internet access to references, further figures, and motion pictures. The reader will be able to enjoy this book on a smartphone or tablet PC.

Covering the basics of X-rays, CT, PET, nuclear medicine, ultrasound, and MRI, this textbook provides senior undergraduate and beginning graduate students with a broad introduction to medical imaging. Over 130 end-of-chapter exercises are included, in

addition to solved example problems, which enable students to master the theory as well as providing them with the tools to solve more difficult problems. The basic theory, instrumentation and state-of-the-art techniques and applications are covered, bringing students immediately up-to-date with recent developments, such as combined computed tomography/positron emission tomography, multi-slice CT, four-dimensional ultrasound, and parallel imaging MR technology. Clinical examples provide practical applications of physics and engineering knowledge to medicine. Finally, helpful references to specialised texts, recent review articles, and relevant scientific journals are provided at the end of each chapter, making this an ideal textbook for a one-semester course in medical imaging.

[PET-CT and PET-MRI in Oncology](#)

[Human Sectional Anatomy](#)

[Pocket Atlas of Body Sections, CT and MRI Images, Third Edition](#)

[Diseases of the Chest, Breast, Heart and Vessels 2019-2022](#)

[Atlas of Small Animal CT and MRI](#)

[A Guide to 3D Volumetric Acquisitions](#)

[An Image Pattern Approach](#)

[CT & MRI Pathology: A Pocket Atlas, Third Edition](#)