

## Computed Tomography Technologists Lippincott Williams

Technologic advances in imaging now allow cardiologists to diagnose, noninvasively, a wide range of cardiac disorders, from subclinical atherosclerosis to obstructive coronary artery disease. This 500+ Question & Answer review book serves as the board prep product for all cardiologists/fellows/radiologists interested in certifying in this rapidly expanding area. All aspects of cardiovascular CT principles and physics, methodologies, and clinical practice are covered. Features Include: • Cost-effective board preparation; • MCQs that mimic the CCT boards; • Review questions in CT physics, study acquisition, and interpretation; • Online access to video clips and over 500 Q&As.

An ideal resource for the classroom or the clinical setting, Sectional Anatomy for Imaging Professionals, 3rd Edition provides a comprehensive, easy-to-understand approach to the sectional anatomy of the entire body. Side-by-side presentations of actual diagnostic images from both MRI and CT modalities and corresponding anatomic line drawings illustrate the planes of anatomy most commonly demonstrated by diagnostic imaging. Concise descriptions detail the location and function of the anatomy, and clearly labeled images help you confidently identify anatomic structures during clinical examinations and produce the best possible diagnostic images. Side-by-side presentation of anatomy illustrations and corresponding CT and MRI images clarifies the location and structure of sectional anatomy. More than 1,500 high-quality images detail sectional anatomy for every body plane commonly imaged in the clinical setting. Pathology boxes help you connect commonly encountered pathologies to related anatomy for greater diagnostic accuracy. Anatomy summary tables provide quick access to muscle information, points of origin and insertion, and muscle function for each muscle group. Reference drawings and corresponding scanning planes accompany actual images to help you recognize the correlation between the two. NEW! 150 new scans and 30 new line drawings familiarize you with the latest 3D and vascular imaging technology. NEW! Chapter objectives help you concentrate on the most important chapter content and study more efficiently. NEW! Full labels on all scans provide greater diagnostic detail at a glance.

Grundlæggende lærebog om CT og MRI og disses anvendelse iforbindelse med undersøgelser af kroppens organer. Først beskrives principperne bag CT-teknik og MRI, og derefter gennemgås undersøgelser af kroppens organer systematisk. Bogen beskriver både normale og abnorme fund med tekst og billeder og giver instruktioner i, hvorledes man optimerer billedkvalitet, -analyse, og -fortolkninger, samt undgår de mest almindelige fejlfortolkninger.

Computed Tomography for Technologists Exam Review Lippincott Williams & Wilkins

Torres' Patient Care in Imaging Technology, 9th Edition helps students develop the knowledge and skills they need to become safe, perceptive, and efficient radiologic technologists. The book offers a strong illustration program and a logical organization that emphasizes the connections between classroom learning and clinical practice. Fully aligned with the latest ARRT and ASRT standards, this edition covers current trends and advances in the field and offers an unparalleled array of online teaching and learning resources.

The Fourth Edition of this text provides a clear understanding of the physics principles essential to getting maximum diagnostic value from the full range of current and emerging imaging technologies. Updated material added in areas such as x-ray generators (solid-state devices), xerography (liquid toner), CT scanners (fast-imaging technology) and ultrasound (color Doppler). The thoroughly revised Third Edition of this widely acclaimed volume explains how to use the newest high-resolution CT technology to diagnose lung disease. Still the only text on the topic, this compact, affordable reference is written by the foremost experts in the field and provides cutting-edge technical and clinical information. This edition reviews new findings on expiratory scans and recent changes in the classification of interstitial pneumonia. Coverage includes descriptions of many additional disease entities, as well as new diagnostic algorithms. The extensively revised art program features more than 400 illustrations. A Brandon-Hill recommended title.

The Fourth Edition of Handbook of Interventional Radiologic Procedures features extensive updates to keep pace with the rapid growth of interventional radiology. Focusing on protocols and equipment, this popular, practical handbook explains how to perform all current interventional radiologic procedures. Highlights of this edition include new information on radiofrequency ablation. Each procedure includes indications, contraindications, preparation, technique, postprocedure management, and prevention and management of complications. Simple line drawings demonstrate relevant anatomy and procedures. Coverage also includes risk management, nursing management, and drugs and dosages. The outline format helps readers find information quickly, and the compact pocket size enables residents and practitioners to carry all the information they need with them.

This book focuses on applications of micro CT, CBCT and CT in medicine and engineering, comprehensively explaining the basic principles of these techniques in detail, and describing their increasing use in the imaging field. It particularly highlights the scanning procedure, which represents the most crucial step in micro CT, and discusses in detail the reconstruction process and the artifacts related to the scanning processes, as well as the imaging software used in analysis. Written by international experts, the book illustrates the application of micro CT in different areas, such as dentistry, medicine, tissue engineering, aerospace engineering, geology, material engineering, civil engineering and additive manufacturing. Covering different areas of application, the book is of interest not only to specialists in the respective fields, but also to broader audience of professionals working in the fields of imaging and analysis, as well as to students of the different disciplines.

This book describes current examination techniques and advanced clinical applications of state-of-the-art multidetector computed tomography (MDCT) scanners. There are contributions from several distinguished radiologists and clinicians. Each chapter is written from a practical perspective, so that radiologists, residents, medical physicists, and radiology technologists can obtain relevant information about MDCT applications.

Completely updated with the latest advances in imaging technology, this quick-reference manual is the only procedures guide specifically geared to nuclear medicine technologists. It provides detailed, easy-to-follow instructions for 61 scan procedures, including listings of possible artifacts and problems that may arise during each scan. An extensive quick-reference section includes conversion tables, radiopharmaceutical dose ranges, pediatric dosing, anatomical drawings, standard drug interventions, lab tests, language translations, thyroid therapy information, and reproducible patient history sheets for 20 scans.

Publisher's Note: Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality, authenticity, or access to any online entitlements included with the product. The 4th Edition of Mammographic Imaging: A Practical Guide remains the most up-to-date and comprehensive book in the field. A perfect all-in-one solution for coursework, board prep, and clinical practice, this bestseller

reflects the latest ARRT educational and certification exam requirements, as well as the ASRT recommended curriculum. Technologists seeking to stay current in the profession and students preparing to enter the field will appreciate the 227 new photos, the wide range of case studies, and the interactive online exam simulator with ARRT registry-style questions.

This book presents a practical approach to the differential diagnosis of pulmonary infections based on their radiographic and CT appearances. The authors discuss the value and limitations of chest radiography, the indications for CT, the optimal CT techniques, and the role of intravenous contrast. Chapters describe and illustrate the characteristic imaging manifestations of common community-acquired and nosocomial pneumonias and various infections seen in immunocompromised patients. The book contains over 400 images and many tables that summarize the characteristic manifestations of bacterial, mycobacterial, fungal, and viral infections. Over 50 full-color illustrations show histopathologic or microbiologic features that correlate with imaging findings.

This new learning resource makes it easy for readers to learn, identify, and recall anatomic structures in cross-section. All body part chapters include an anatomical overview that reviews the relationship between the structures of that region. Sectional anatomy is described through the use of labeled computed tomography (CT) and magnetic resonance (MR) images. The three-way structure presentation--anatomical scanograms; patient scans (MRs and/or CTs); and adjacent correlating line drawings--enables readers to identify anatomy on actual images. Each chapter includes objectives, key terms, and review questions, with answers in separate appendices. Pathology case studies illustrate the clinical significance of sectional images.

Part of the renowned The Basics series, Nuclear Medicine Physics helps build foundational knowledge of how and why things happen in the clinical environment. Ideal for board review and reference, the 8th edition provides a practical summary of this complex field, focusing on essential details as well as real-life examples taken from nuclear medicine practice. New full-color illustrations, concise text, essential mathematical equations, key points, review questions, and useful appendices help you quickly master challenging concepts in nuclear medicine physics.

This concise, user-oriented and up-to-date desk reference offers a broad introduction to the fascinating world of medical technology, fully considering today's progress and further development in all relevant fields. The Springer Handbook of Medical Technology is a systemized and well-structured guideline which distinguishes itself through simplification and condensation of complex facts. This book is an indispensable resource for professionals working directly or indirectly with medical systems and appliances every day. It is also meant for graduate and post graduate students in hospital management, medical engineering, and medical physics.

Publisher's Note: Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality, authenticity, or access to any online entitlements included with the product. Covering only what CT technologists need to know, this all-in-one solution helps students develop the knowledge and decision-making skills they need for clinical practice while preparing them for the ARRT registry exam. Organized around the three major ARRT content categories (physics and instrumentation, patient care, and imaging procedures), the fully updated 2nd Edition takes an easy-to-understand approach that combines real-world scenarios, and proven pedagogy to help students master the content of the course. Buy it as an eBook! Fast, smart, and convenient, today's eBooks can transform learning. These interactive, fully searchable tools offer 24/7 access on multiple devices, the ability to highlight and share notes, and much more. NEW! The latest ARRT and ASRT standards are incorporated to fully prepare students for the registry exam. NEW! Up-to-date content on patient radiation dosing includes methods to reduce doses, such as adaptive statistical iterative reconstruction (ASIR) and factors associated with expanded MDCT that contribute to the dose. EXPANDED! The book's robust online student resources now include new audio flashcards, a new audio glossary, and new animations, as well as an image bank and exam simulator. Clinical Application boxes use real-life scenarios to illustrate and explain concepts. In-text learning aids, including key terms, key concepts boxes, review questions, an end-of-the book glossary, and recommended readings, reinforce learning. Examples of Exam Protocols summarize appropriate protocols and procedures for examining major anatomical areas. CT Cross-Sectional Slices, accompanied by shaded diagrams and a reference image, appear in the Cross-Sectional Anatomy section.

With more than 1,000 high-quality radiographs and illustrations, this bestselling book visually demonstrates the basic principles of oral and maxillofacial radiology as well as effective clinical application. You'll be able to diagnose and treat patients effectively with the coverage of imaging techniques, including specialized techniques such as MRI and CT, and the comprehensive discussion of the radiographic interpretation of pathology. The book also covers radiation physics, radiation biology, and radiation safety and protection — helping you provide state-of-the-art care! A consistent format makes it easy to follow and comprehend clinical material on each pathologic condition, including a definition, synonyms, clinical features, radiographic features, differential diagnosis, and management/treatment. Updated photos show new equipment and radiographs in the areas of intraoral radiographs, normal radiographic anatomy, panoramic imaging, and advanced imaging. Updated Digital Imaging chapter expands coverage of PSP plates and its use in cephalometric and panoramic imaging, examining the larger latitudes of photostimulable phosphor receptors and their linear response to the five orders of magnitude of x-ray exposure. Updated Guidelines for Prescribing Dental Radiographs chapter includes the latest ADA guidelines, and also discusses the European Guidelines. Updated information on radiographic manifestations of diseases in the orofacial region includes the latest data on etiology and diagnosis, with an emphasis on advanced imaging. Expert contributors include many authors with worldwide reputations. Cone Beam Computed Tomography chapter covers machines, the imaging process, and typical clinical applications of cone-beam imaging, with examples of examinations made from scans. Evolve website adds more coverage of cases, with more examples of specific issues. 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.

With more than 1,000 high-quality radiographs and illustrations, Oral Radiology: Principles and Interpretation, 7th Edition visually demonstrates the basic principles of oral and

maxillofacial radiology along with their clinical application. First, you'll gain a solid foundation in radiation physics, radiation biology, and radiation safety and protection. Then you'll learn intraoral and extraoral imaging techniques, including specialized techniques such as MRI and CT. The second half of the book focuses on how to recognize the radiographic features of pathologic conditions and interpret radiographs accurately. This edition also includes new chapters on forensics and cone-beam imaging. Written by oral radiology experts Stuart White and Michael Pharoah, this bestselling book helps you provide state-of-the-art care! An easy-to-follow format simplifies the key radiographic features of each pathologic condition, including location, periphery, shape, internal structure, and effects on surrounding structures - placed in context with clinical features, differential diagnosis, and management. UPDATED information addresses the etiology and diagnosis of diseases and pathologic conditions in the orofacial region. Updated coverage of all aspects of oral radiology includes the entire predoctoral curriculum. A wide array of radiographs including advanced imaging such as MRI and CT. Hundreds of drawings are updated and rendered in full color. Case studies apply imaging concepts to real-world scenarios. Expert contributors include many authors with worldwide reputations. Chapter bibliographies and suggested readings make it easier to conduct further research. NEW chapter on cone-beam imaging keeps you current with emerging field requirements. NEW coverage of cone beam computed tomography (CBCT) includes more of the normal anatomy of cross-sectional images of the maxilla and mandible along with variations of normal anatomy. NEW! An eBook version makes the content interactive and portable, and shows radiographs in high resolution.

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.

From the author of our best-selling handbook on helical (spiral) CT comes a brand-new, indispensable, practical guide to the next generation of technology--multislice (or multidetector) CT. Dr. Silverman and his renowned colleagues present detailed, easy-to-follow scanning protocols for all areas of the body, for pediatric examinations, and for three-dimensional imaging...and explain the principles behind the protocols. Multislice CT scanning protocols for specific clinical indications are presented in the same user-friendly outline format as in Dr. Silverman's other handbook. Representative images appear on the page opposite each protocol. The author's terminology allows the protocols to be used with equipment from any manufacturer.

Revised to reflect the current cardiothoracic radiology curriculum for diagnostic radiology residency, this concise text provides the essential knowledge needed to interpret chest radiographs and CT scans. This edition includes nearly 800 new images obtained with state-of-the-art technology and a new chapter on cardiac imaging. A new patterns of lung disease section provides a one-stop guide to recognizing and understanding findings seen on thin-section CT. This edition also includes the new classification of idiopathic interstitial pneumonias, current techniques for evaluating solitary pulmonary nodules, an algorithm for managing incidental nodules seen on chest CT, the new World Health Organization classification of lung tumors, and numerous new cases in the self-assessment chapter.

Featuring 229 sharp, new images obtained with state-of-the-art technology, the Second Edition of this popular pocket atlas is a quick, handy guide to interpreting computed tomography body images. It shows readers how to recognize normal anatomic structures on CT scans...and distinguish these structures from artifacts. Chapters cover the neck and larynx, thorax, portal venous phase abdomen, pelvis, arterial phase abdomen, and reconstructions. Each page presents a high-resolution image, with anatomic landmarks clearly labeled. Directly above the image are a key to the labels and a thumbnail illustration that orients the reader to the location and plane of view. This format--sharp images, orienting thumbnails, and clear keys--enables readers to identify features with unprecedented speed and accuracy.

Now in its eighth edition, *Torres' Patient Care in Imaging Technology* is trusted to develop the knowledge and skills that enable students to become safe and sensitive practitioners in every aspect of patient care. The text is designed to present key concepts effectively for beginning students as well as more advanced students and practitioners who want to improve their skills in patient care and imaging technology. *Torres' Patient Care in Imaging Technology* is a highly visual, focused, comprehensive text that presents key concepts, current trends, and advances in imaging technology and patient care in an engaging manner. The new edition includes an introductory chapter on radiography and contains expanded coverage of HIPAA and diversity. Two new features: Cultural Considerations boxes and Case Studies with critical thinking questions, build on the text's emphasis on helping students develop the skills needed to think critically and react appropriately in an actual clinical setting. The student-friendly writing style and logical organization allow instructors to cover the essentials of patient care in a limited amount of time. An illustration- and feature-rich approach enhances learning for students of multiple learning styles.

The thoroughly revised, updated Third Edition of this acclaimed atlas is a valuable aid to interpreting pulmonary HRCT scans, and an excellent complement to Webb, Müller and Naidich's *High-Resolution CT of the Lung, Fourth Edition*. Featuring over 900 large images—almost all new to this edition—the atlas depicts the full spectrum of HRCT appearances of diseases affecting the airways and pulmonary parenchyma. The images are all accompanied by telling legends that are much easier to follow than lengthy blocks of text. This edition includes new material on adult presentations of congenital lesions, drug reactions, mycobacterial diseases, smoking-related interstitial disease, and viral pneumonias.

En lille lommebog med 73 CT skanninger af hjernen og hovedet i sort/hvid billedkvalitet.

Written by world-renowned experts in both CT angiography and MR angiography, this landmark work is the first comprehensive text on vascular imaging using CT and MR. It provides a balanced view of the capabilities of these modalities and practical guidelines for obtaining and interpreting images. More than 2,200 illustrations complement the text. Chapters co-authored by CT and MR authorities cover imaging

of all coronary and non-coronary arteries and veins. Each chapter details indications, imaging strategies, normal and variant anatomy, diseases, surgical management, and pitfalls. The authors compare the utility of CT and MR in specific clinical situations and discuss the role of conventional angiography and ultrasound where appropriate.

Written by a computed tomography technologist, *Computed Tomography for Technologists: A Comprehensive Text* is the only comprehensive CT text geared to technologists. It is ideally suited for CT courses in radiologic technology programs and for stand-alone CT programs and offers excellent preparation for the CT certification exam administered by the American Registry of Radiologic Technologists. Student-friendly features of the book include highlighted key terms, Key Concepts boxes, Clinical Application boxes, chapter review questions, and suggested readings. *Computed Tomography for Technologists: Exam Review* is intended to be used as a companion to *Computed Tomography for Technologists: A Comprehensive Text*. This resource offers excellent preparation for the CT certification exam administered by the American Registry of Radiologic Technologists as well as the CT portion of the general radiography exam from the ARRT. The book includes a bulleted-format review of content, Registry-style questions with answers and rationales, and a mock exam following the ARRT format. This package contains (9780781777513) *Computed Tomography for Technologists: A Comprehensive Text* and (9780781777964) *Computed Tomography for Technologists: Exam Review*.

Written by the chief physicist at Johns Hopkins University Hospital, this easy-to-read short textbook explains the physics behind multi-detector CT technology, particularly newer, more complex technology. The focus is on principles of physics, effects of scan parameters on image quality, and optimum radiation dosage. The book includes numerous key points summaries and questions to assist in exam preparation.

Widely regarded as the cornerstone text in the field, the successful series of editions continues to follow the tradition of a clear and comprehensive presentation of the physical principles and operational aspects of medical imaging. *The Essential Physics of Medical Imaging, 4th Edition*, is a coherent and thorough compendium of the fundamental principles of the physics, radiation protection, and radiation biology that underlie the practice and profession of medical imaging. Distinguished scientists and educators from the University of California, Davis, provide up-to-date, readable information on the production, characteristics, and interactions of non-ionizing and ionizing radiation, magnetic fields and ultrasound used in medical imaging and the imaging modalities in which they are used, including radiography, mammography, fluoroscopy, computed tomography, magnetic resonance, ultrasound, and nuclear medicine. This vibrant, full-color text is enhanced by more than 1,000 images, charts, and graphs, including hundreds of new illustrations. This text is a must-have resource for medical imaging professionals, radiology residents who are preparing for Core Exams, and teachers and students in medical physics and biomedical engineering.

\*\*\*Includes Practice Test Questions\*\*\* *Computed Tomography Exam Secrets* helps you ace the Computed Tomography Exam, without weeks and months of endless studying. Our comprehensive *Computed Tomography Exam Secrets* study guide is written by our exam experts, who painstakingly researched every topic and concept that you need to know to ace your test. Our original research reveals specific weaknesses that you can exploit to increase your exam score more than you've ever imagined. *Computed Tomography Exam Secrets* includes: The 5 Secret Keys to Computed Tomography Test Success: Time is Your Greatest Enemy, Guessing is Not Guesswork, Practice Smarter, Not Harder, Prepare, Don't Procrastinate, Test Yourself; A comprehensive General Strategy review including: Make Predictions, Answer the Question, Benchmark, Valid Information, Avoid Fact Traps, Milk the Question, The Trap of Familiarity, Eliminate Answers, Tough Questions, Brainstorm, Read Carefully, Face Value, Prefixes, Hedge Phrases, Switchback Words, New Information, Time Management, Contextual Clues, Don't Panic, Pace Yourself, Answer Selection, Check Your Work, Beware of Directly Quoted Answers, Slang, Extreme Statements, Answer Choice Families; A comprehensive Concepts review including: Detector Efficiency, Collimation, Intracranial Bleeding, Kerma, Metal Artifacts, Photoconductor, Kilovolt, Spatial Frequency, Pulmonary Arteriography, Axial Plane, Hounsfield Unit Epidural Hematoma, Consent, Pediatric Dose Reduction, Immobilization, Spiral CT, Automatic Injection, Region of Interest Low Osmolality Contrast Media, Convolution Filters Quantum Theory, Signal to Noise Ratio, Linearity, Isotonic, Third Generation CT Imager, Display Field of View, Fan Beam, CT Regarding Stroke, Helical CT Angiography, Detector Array, Ray Sum, Electron Beam CT Contrast Materials -- IV and Oral, Vital Signs, Blood Flow, Metformin, Spiral CTkVp, CT vs. MRI, Brain CT Scanning, Contraindications, Edge Gradient, and much more...

The purpose of this book is to introduce radiography technicians and residents in radiology to the ever growing field of computed tomography i.e. using computer analysis of x-rays to produce cross-sectional images or "slices", both horizontal and vertical, of the body taken at different angles. Other titles on the science of CT go into too much detail for the average reader. This handy-to-use pocket book provides the information necessary to manage a CT scan, covering all the topics involved, and also suggests guidelines for the planning of advanced CT studies. In full colour throughout, and with a free CD Rom containing the 62 figures in the book, "Step by Step CT Scan" is an excellent pocket reference for technicians and radiology residents.

Now revised to reflect the new, clinically-focused certification exams, *Review of Radiological Physics, Fourth Edition*, offers a complete review for radiology residents and radiologic technologists preparing for certification. . This new edition covers x-ray production and interactions, projection and tomographic imaging, image quality, radiobiology, radiation protection, nuclear medicine, ultrasound, and magnetic resonance – all of the important physics information you need to understand the factors that improve or degrade image quality. Each chapter is followed by 20 questions for immediate self-assessment, and two end-of-book practice exams, each with 100 additional questions, offer a comprehensive review of the full range of topics.

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.

Build the foundation necessary for the practice of CT scanning with *Computed Tomography: Physical Principles, Clinical Applications, and Quality Control, 4th Edition*. Written to meet the varied requirements of radiography students and practitioners, this two-color text provides comprehensive coverage of the physical principles of CT and its clinical

applications. Its clear, straightforward approach is designed to improve your understanding of sectional anatomic images as they relate to CT — and facilitate communication between CT technologists and other medical personnel. Comprehensively covers CT at just the right depth for technologists – going beyond superficial treatment to accommodate all the major advances in CT. One complete CT resource covers what you need to know! The latest information on advances in CT imaging, including: advances in volume CT scanning; CT fluoroscopy; multi-slice applications like 3-D imaging, CT angiography, and virtual reality imaging (endoscopy) – all with excellent coverage of state-of-the-art principles, instrumentation, clinical applications, and quality control. More than 600 photos and line drawings help students understand and visualize concepts. Chapter outlines show you what is most important in every chapter. Strong ancillary package on Evolve facilitates instructor preparation and provides a full complement of support for teaching and learning with the text NEW! Highlights recent technical developments in CT, such as: the iterative reconstruction; detector updates; x-ray tube innovations; radiation dose optimization; hardware and software developments; and the introduction of a new scanner from Toshiba. NEW! Learning Objectives and Key Terms at the beginning of every chapter and a Glossary at the end of the book help you organize and focus on key information. NEW! End-of-Chapter Questions provide opportunity for review and greater challenge. NEW! An added second color aids in helping you read and retain pertinent information

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 PIOPED 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.

Rev. ed. of: Registry review in computed tomography. c1996.

Leading clinicians and researchers from around the world review the full scope of current developments, research, and scientific controversy regarding the principles and applications of cardiac CT. Richly illustrated with numerous black-and-white and color images, the book discusses the interpretation of CT images of the heart in a variety of clinical, physiological, and pathological applications. The authors emphasize current state-of-the-art uses of CT, but also examine developments at the horizon. They also review the technical basis of CT image acquisition, as well as tools for image visualization and analysis.

Leveraging the organization and focus on exam preparation found in the comprehensive text, this Exam Review will help any student to successfully complete the ARRT General Radiography and Computed Tomography exams. The book includes a bulleted format review of content, Registry-style questions with answers and rationales, and a mock exam following the ARRT format. The companion website offers an online testing simulation engine.

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