

Computed Tomography For Technologists Exam Review Point Lippincott Williams Wilkins

Thoroughly revised and reorganized, this 2nd edition offers you meticulous how-to-do-it guidance on performing today's top radiographically guided regional anesthesia and pain management techniques. Renowned experts explain how to make optimal use of fluoroscopy, MRI, and CT to pinpoint the exact anatomic site for each procedure. Provides fluoroscopic, MR, and CT images coupled with distinct line drawings for each procedure to ensure proper positioning and easy application of techniques. Offers easy-to-follow step-by-step descriptions addressing every aspect of patient positioning, the use of radiographic solutions for tissue-specific enhancement, and correct techniques for anesthesia/analgesia administration so you can be sure your patient will be pain free throughout the procedure. Discusses possible complications to help you avoid mistakes. Includes descriptions of procedures for each image guided technique as well as the approaches available for such imaging so you can choose the correct procedure for every patient. Features two new sections Advanced Techniques and Emerging Techniques, incorporates new procedures into the upper and lower extremity and head and neck chapters, and revises all other chapters substantially to put you on the cusp of the latest advances in the field. Uses nearly 1,600 crisp illustrations, 50% new to this edition, to illuminate every concept. Presents a complete reorganization by body region and focused content to help you get to the information you need quickly.

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.

Endorsed by the Association of Radiologic and Imaging Nursing (ARIN), this first of a kind comprehensive radiology nursing textbook fills a gap by addressing important subjects for patient care and professional issues, as well as, future possibilities affecting nursing practice. It serves as a resource to related nursing specialties, e.g. critical care, emergency or peri-anesthesia, and to radiologic technologists and physician assistants. The book could be used as one resource for studying for radiologic nursing certification. The textbook is subdivided into five sections that address advanced practice and leadership roles, clinical patient care topics, safety topics, including legal considerations, e.g. infection prevention and equipment. It includes a section with topics impacting the patient experience

and a section on professional topics, e.g. cybersecurity, social media, research/outcomes, interprofessional collaboration, workplace violence and current trends in imaging. The authors include advanced practice providers, radiology nurse managers, educators, physicians, a physicist, a dentist, attorneys, a child life specialist, administrators and a social worker. Radiology diagnostic examinations and therapeutic procedures have become a more prominent part of patient care due to advances in technology and the ability of radiology to provide services that were traditionally done in surgery or not done because of limited knowledge. Many procedures are facilitated by the radiology nurse from initial consult to transfer to a hospital unit or discharge and follow-up. Nurses assess, monitor, administer sedation/other medications and respond to emergencies. They serve as educators, researchers, and resource personnel to the radiology department and in many instances, to the entire facility. Radiology nurses are real leaders. In order to keep up-to-date on new developments, nurses need new literature to support their clinical expertise and leadership. This book is an unparalleled resource, written by experts in their areas of interest. Rev. ed. of: Registry review in computed tomography. c1996.

This book presents a comprehensive review of nuclear cardiology principles and concepts necessary to pass the Nuclear Cardiology Technology Specialty Examination. The practice questions are similar in format and content to those found on the Nuclear Medicine Technology Certification Board (NMTCB) and American Registry of Radiological Technologists (ARRT) examinations, allowing test takers to maximize their chances of success. The book is organized by test sections of increasing difficulty, with over 600 multiple-choice questions covering all areas of nuclear cardiology, including radionuclides, instrumentation, radiation safety, patient care, and diagnostic and therapeutic procedures. Detailed answers and explanations to the practice questions follow. It also includes helpful test-taking tips. Supplementary appendices include commonly used abbreviations and symbols in nuclear medicine, glossary of cardiology terms, and useful websites. Nuclear Cardiology Study Guide is a valuable reference for nuclear medicine technologists, nuclear medicine physicians, and all other imaging professionals in need of a concise review of nuclear cardiology.

Computed Tomography for Technologists Exam Review Lippincott Williams & Wilkins

This and concise review book encompasses the physical principles and clinical applications of computed tomography. Specifically geared toward preparing for the American Registry of Radiologic Technologists (ARRT) advanced-level exam, this useful text consists of 3 sample exams following the ARRT format. Also features an appendix with references and brief rationales for each answer. Provides a total of 600 multiple-choice questions in four complete practice exams. These questions follow the same format as the ones found in the ARRT CT exam, creating a realistic approximation of the challenges that readers will face. Offers a correct answer and a detailed explanation for each question.

Includes current references to facilitate further study. Covers everything from the basics of CT to the latest, most advanced topics--including 3-dimensional CT, multi-planar reformation (MPR), and high-resolution computed tomography (HRCT). Contains more than 50 high-quality CT images that allow readers to identify cross-sectional anatomy, selected pathology, and other technical aspects of this imaging modality.

Now in its updated Second Edition, this volume is the only text on computed tomography that is specifically geared to radiologic technologists. It gives technologists a thorough working knowledge of normal cross-sectional anatomy and CT scanning techniques, including newer techniques such as spiral CT and high-resolution CT of the chest. The book is an ideal everyday reference and a perfect study guide for subspecialty certification examinations such as the one given by the American Registry of Radiologic Technologists. Anatomically oriented chapters cover all cranial and extracranial regions of the body. Normal cross-sectional anatomy is shown in 150 CT scans made on a state-of-the-art scanner, with corresponding line drawings on which anatomic landmarks are labeled. Additional chapters cover principles and instruments of CT; clinical considerations for the CT technologist; contrast media reactions; CT-guided interventional techniques; and spiral CT.

This book is a comprehensive and richly-illustrated guide to cardiac CT, its current state, applications, and future directions. While the first edition of this text focused on what was then a novel instrument looking for application, this edition comes at a time where a wealth of guideline-driven, robust, and beneficial clinical applications have evolved that are enabled by an enormous and ever growing field of technology. Accordingly, the focus of the text has shifted from a technology-centric to a more patient-centric appraisal. While the specifications and capabilities of the CT system itself remain front and center as the basis for diagnostic success, much of the benefit derived from cardiac CT today comes from avant-garde technologies enabling enhanced visualization, quantitative imaging, and functional assessment, along with exciting deep learning, and artificial intelligence applications. Cardiac CT is no longer a mere tool for non-invasive coronary artery stenosis detection in the chest pain diagnostic algorithms; cardiac CT has proven its value for uses as diverse as personalized cardiovascular risk stratification, prediction, and management, diagnosing lesion-specific ischemia, guiding minimally invasive structural heart disease therapy, and planning cardiovascular surgery, among many others. This second edition is an authoritative guide and reference for both novices and experts in the medical imaging sciences who have an interest in cardiac CT.

By 2030, more than 70 million Americans will be over the age of 65. With the aging population's demand for health services and the development of new medical technologies, opportunities for health professionals are excellent and will expand rapidly in the years to come. The careers profiled include: Art therapist; Biochemist; Chiropractor; Cytotechnologist; Dietician; Epidemiologist; Home health aide; Massage therapist; Microbiologist; Mortician; Pharmacist; and Physician assistant.

Lippincott's Computed Tomography Review is the latest in a growing series of Study Guides and Test Reviews designed to help students and technologists achieve optimal success in examinations critical to their careers. This particular review is specifically intended for the Advanced Qualifications Examination in Computed Tomography.

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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.

Develop the skills and knowledge to make informed decisions regarding technical factors and diagnostic imaging quality with the vibrantly illustrated Radiologic Science for Technologists, 10th Edition. Updated with the latest advances in the field, this full-color and highly detailed edition addresses a broad range of radiologic disciplines and provides a strong foundation in the study and practice of radiologic physics, imaging, radiobiology, radiation protection, and more. Unique learning tools strengthen your understanding of key concepts and prepare you for success on the ARRT certification exam and in clinical practice. Broad coverage of radiologic science topics — including radiologic physics, imaging, radiobiology, radiation protection, and more — allows you to use the text over several semesters. Highlighted math formulas call attention to mathematical information for special focus. Important Concept boxes recap the most important chapter information. Colored page tabs for formulas, conversion tables, abbreviations, and other data provide easy access to frequently used information. End-of-chapter questions include definition exercises, short answer, and calculations to help you review material. Key terms and expanded glossary enable you to easily reference and study content. Chapter introductions, summaries, objectives, and outlines help you organize and pinpoint the most important information. NEW! Chapters on digital radiographic technique and digital image display prepare you to use today's technology. NEW! Streamlined physics and math sections ensure you are prepared to take the ARRT exam and succeed in the clinical setting.

The PET and PET/CT Study Guide presents a comprehensive review of nuclear medicine principles and concepts necessary for passing PET specialty board examinations. The practice questions and content are similar to those found on the Nuclear Medicine Technology Certification Board (NMTCB) exam, allowing test takers to maximize their chances of success. The book is organized by test sections of increasing difficulty, with over 650 multiple-choice questions covering all areas of positron emission tomography, including radiation safety; radionuclides; instrumentation and quality control; patient care; and diagnostic and therapeutic procedures. Detailed answers and explanations to the practice questions follow. Supplementary appendices include common formulas, numbers, and abbreviations, along with a glossary of terms for easy access by readers. The PET and PET/CT Study Guide is a

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valuable reference for nuclear medicine technologists, nuclear medicine physicians, and all other imaging professionals in need of a concise review of the basics of PET and PET/CT imaging.

"This book fills an immense need within the CT technologist education genre. There are many books on CT for techs: physics, imaging anatomy and case studies, and scanning primers. There are fewer that take the express role of a hands-on, practical, day-to-day training guide in addition to ensuring that all the key safety and patient care principles are followed. The need became very clear to us in practice as we worked very hard to train many x-rays and nuclear medicine technologists to become CT certified and, more importantly, become expert technologists who can think on the fly, ask their radiologists the right questions, and in all cases help use fundamental principles to improve imaging protocols, contrast bolus timing, radiation dose monitoring management, and post-processing. To be comprehensive Isidor has included our well tested curriculum, which we certainly recommend. In addition, there is great primary material for learning and future reference." Payam Massaband, M.D. Clinical Associate Professor of Radiology Chief, Radiology Service, VA Palo Alto Health Care System This book is intended for learning radiologic technology on OJT, on volunteer status, preparing to take the CT certification exam, and teaching facility mentors (experienced employees or supervisors). It contains material intended for educational purposes only and uses in conjunction with any CT reviewer workbook to enhance the experience of learning. There are 5 chapters in this book: Chapter 1, "Structured 3 Months Daily CT On-the-Job Training for Radiologic Technologist, consists of 3 Months of Daily Training Syllabus, 5 Days a Week for 12 Weeks", contains 4 training modules. Chapter 2, "Understanding the Equipment and the Technologist's Role", contains 6 reading modules. Chapter 3, "Tricks of the Trade and Tips for Safe CT Scans While Developing Good Habits and Muscle Memory", contains 6 reading modules. Chapter 4, "CT Procedure Overview and Sectional Anatomy - Identification of Body Landmarks, Blood vessels, Organs, and Image Anomalies: Foreign Objects or Image Artifacts", contains 5 image modules. Chapter 5 "Pop Quizzes from Reading Modules in Chapter Three, Chapter Four and Image Modules in Chapter Five" contains 13 modules topics with 25 questions per module topic. Isidor Jardin R.T. (R)(CT)(MR)(ARRT)

This book considers in depth all the factors that influence the radiation dose and the risk associated with MDCT in children and adults. Only a small proportion of referring clinicians, radiologists, and technologists are aware of both the radiation risks and their underlying mechanisms. The book proposes detailed guidelines for optimization of the radiation dose when using MDCT. It is written by experts of international standing.

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.

Introduction to Health Care & Careers provides students beginning their health care education with the fundamentals they need to develop their personal and professional skills, understand their chosen profession, and succeed in the world of health care. This new edition meets the requirements of the revised Core Curriculum for Surgical Technologists, 5th edition. It is written by surgical technologists for surgical technologists. The content focuses on the concepts and skill development (cognitive and procedural) required of surgical technologists in the operative environment. The text uses the A POSitive CARE approach to surgical problem solving that concentrates on the ability of the surgical technologist to predict the patient's and surgeon's

needs through the intraoperative period. The goal is for the surgical technologist to apply this model in daily practice for maximum efficiency and effectiveness during the surgical procedure. The surgical procedures included in the text were selected for their instructive value and because the skills demonstrated can be applied to many other procedures.

INTRODUCTION TO HEALTH CARE, 3E provides learners with an easy-to-read introduction to the foundational skills necessary for a range of health care professions. This redesigned and updated new edition offers a comprehensive but introductory survey of basic clinical health care skills for learners entering health care programs or for those that think they may be interested in pursuing a career in health care. Core competencies shared by all health care professions such as communication, infection control, and professionalism are provided to expose learners to the reality of practice. This book emphasizes developing critical thinking skills through a five-step problem solving model that teaches how to assess a situation, consider alternatives, choose an appropriate alternative, evaluate the results, and revise as needed. This resource demonstrates how to think like a health care professional and is a terrific first step towards a rewarding career. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. In the past, for the most part, people who moved into management positions in medical imaging were chosen because they were the best technologists. However, the skill set for technologists and supervisors/managers are vastly different. Even an MBA-educated person may not be ready to take on imaging management. As an example, when buying a very expensive piece of imaging equipment, this person would not necessarily know the right questions to ask, such as: What is my guaranteed uptime? Is technologist training included? Introduction to Medical Imaging Management is a comprehensive reference for medical imaging managers learning through a combination of education and experience. This thorough book provides an in-depth overview of every major facet pertaining to the knowledge and skills necessary to become a department or imaging center supervisor or manager. The text follows a natural progression from transitioning into a management position and dealing with former peers through the most sophisticated skills uniquely applicable to medical imaging management. Covering all aspects of the profession—operations, human resources, finance, and marketing—this reference is a must-have for any potential, new, or less experienced imaging manager.

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.

ACE THE ARRT CERTIFICATION EXAM WITH THE LEADING NAME IN RADIOGRAPHY 4-STAR DOODY'S REVIEW! "This is a must-have book for any future radiographer." -- Doody's Review Service The entire radiography curriculum summarized in a concise, accessible narrative helps you understand and remember key concepts 850+ chapter review questions, including a 200-question practice test, prepare you for the exam Answers include detailed explanations to reinforce learning More than 400 illustrations and clinical images Written by an experienced educator and

radiography program director who knows what it takes to pass Essential for certification or recertification

Preparing you for real-world practice, Haroun/Mitchell's INTRODUCTION TO HEALTH CARE, Fifth Edition, provides an easy-to-read introduction to the foundational skills necessary for a range of health care professions. Emphasizing core health care competencies -- communication, infection control and professionalism -- the text delivers thorough coverage of both the soft skills and basic clinical skills needed by those entering health care training programs or considering a career in health care. Its unique five-step problem-solving model helps you think like a health care professional and sharpen your critical thinking skills, while numerous hands-on activities enable you to put chapter concept into practice. Completely up to date, it reflects the latest research and includes expansive coverage of such emerging issues as the opioid crisis, precision/personalized medicine, suicide prevention, health disparities, patient rights and much more. Also available: MindTap digital learning solution. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This study tool has everything you need to prepare for the ARRT CT exam! Written in outline format, Mosby's Exam Review for Computed Tomography, 2nd Edition serves as both a study guide and an in-depth review. It covers the three content areas on the CT advanced certification examination: patient care, imaging procedures, and physics/instrumentation. Developed by Daniel N. DeMaio, BS, RT(R) (CT), the book simulates the Registry exam with three 165-question mock exams. This title includes additional digital media when purchased in print format. For this digital book edition, media content is not included. Review questions with answers help you prepare for the ARRT exam and identify areas that need additional study. Rationales for correct and incorrect answers provide you with the information you need to make the most out of the Q&A sections. A thorough, outline-format review covers the three content areas on the computed tomography advanced certification exam: patient care, imaging procedures, and physics/instrumentation.

This review text contains 500 exam-type questions, with complete answers and explanations, for computed tomography practitioners and students preparing for the licensing exam.

Computed tomography (CT) is a powerful technique providing precise and confident diagnoses. The burgeoning use of CT has resulted in an exponential increase in collective radiation dose to the population. Despite investigations supporting the use of lower radiation doses, surveys highlight the lack of proper understanding of CT parameters that affect radiation dose. Dynamic advances in CT technology also make it important to explain the latest dose-saving strategies in an easy-to-comprehend manner. This book aims to review all aspects of the radiation dose from CT and to provide simple rules and tricks for radiologists and radiographers that will assist in the appropriate use of CT technique. The second edition includes a number of new chapters on the most up-to-date strategies and technologies for radiation dose reduction while updating the outstanding contents

of the first edition. Vendor perspectives are included, and an online image gallery will also be available to readers.

A complete review for the Registry exam, Mosby's Comprehensive Review of Radiography: The Complete Study Guide and Career Planner, 6th Edition covers the five major subject areas of the ARRT exam in radiography. It is also an effective study guide for many radiography courses! Written in outline format, each review of a subject is followed by questions related specifically to that area. Two mock ARRT exams are included in the book, and online exams include a pool of over 1,400 review questions that may be randomly combined to generate a virtually limitless number of mock ARRT exams. From noted radiography educator William J. Callaway, this edition also provides advice on writing resumes and cover letters, interviewing, employer expectations, and continuing education requirements to help you make the transition to a successful career. Review of the five major subject areas covered on the ARRT exam, in an outline format, helps you concentrate on the most important information. Over 2,400 review questions in the book and online offer practice with a multiple-choice format similar to the ARRT exam. Thorough coverage of digital and computed radiography reflects the increased emphasis of these topics on the Registry exam. Online mock exams let you practice in tutorial mode -- with immediate feedback after each question -- or in exam mode, with feedback only after you complete the entire test. Online study tools include study tips for difficult questions and electronic flashcards with formulas, key terms, and important topics. Rationales for correct and incorrect answers are included in the appendix. Career preparation advice includes writing resumes and cover letters, tips for interviewing, a look at what employers expect, career advancement, basic financial planning, and continuing education requirements. Updates reflect the latest ARRT exam changes with expanded coverage of computed and direct radiography, a review of computed tomography along with questions, and an additional 200-question exam in the Review Activities and Challenge Tests chapter. Online access to mock exams. Job search preparation includes tips on how to submit online applications and resumes.

Everything radiography students need to ace the certification exam Hailed by Doody's Review Service as "the gold standard among instructors and students", Radiography PREP delivers a concise summary of the entire radiography curriculum in a readable narrative. Written by an experienced program director, this is a true "must read" for certification or recertification. Readers will find more than 850 ARRT-style review questions (including a comprehensive 200-question practice exam), detailed answer explanations for correct and incorrect answers, more than 400 illustrations and radiographic images, and powerful learning aids such as summary boxes and a glossary. Market: 748 accredited radiography programs in the USA, with a total enrollment of 16,500 students Updated to reflect the most recent ARRT Radiography Examination blueprint Interestingly written narrative style makes it easier to understand and remember key concepts

Dorothy A. Saia, MA, RT(R)(M) (Stamford, CT) is Director of the Radiography Program at Stamford Hospital. She has been teaching radiography for more than 35 years.

This book offers a comprehensive and topical depiction of advances in CT imaging. CT has become a leading medical imaging modality, thanks to its superb spatial and temporal resolution to depict anatomical details. New advances have further extended the technology to provide physiological information, enabling a wide and expanding range of clinical applications. The text covers the latest advancements in CT technology and clinical applications for a variety of CT types and imaging methods. The content is presented in seven parts to offer a structure across a board coverage of CT: CT Systems, CT Performance, CT Practice, Spectral CT, Quantitative CT, Functional CT, and Special Purpose CT. Each contain chapters written by leading experts in the field, covering CT hardware and software innovations, CT operation, CT performance characterization, functional and quantitative applications, and CT systems devised for specific anatomical applications. This book is an ideal resource for practitioners of CT applications in medicine, including physicians, trainees, engineers, and scientists.

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*.

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.

A complete guide to non-invasive imaging techniques in cardiology Today's imaging technologies offer cardiologists more ways than ever to diagnose conditions of the heart without the need of endoscopies and other invasive procedures. Now in its third edition, *Cardiac CT, PET and MRI* continues to provide an in-depth explanation of these tools and their correct applications, while also exploring cardiac imaging's most recent and groundbreaking developments. This wide-ranging guide places CT, PET and MRI in a practical context, illustrating clearly their respective functions as they apply to specific cardiological disorders and clinical situations. With the addition of seven new chapters, it also offers an expanded insight into PET – an increasingly popular and affordable diagnostic utility, hitherto underexplored in texts devoted to imaging. *Cardiac CT, PET and MRI* includes: Clinically focused examinations of CT, PET and MRI – the three most popular non-invasive imaging modalities Illustrative full-color photos and images Access to a companion website featuring additional content Cardiologists, radiologists, nuclear medicine physicians, physicists, and imaging technologists alike will find the third edition of *Cardiac CT, PET and MRI* an informative and accessible resource with a direct use in their day-to-day practice.

Many will remember the segment of "The Sorcerer's Apprentice" in the Disney film *Fantasia*; it is a perfect metaphor for medical imaging as it stands today. The apprentice magician tests his nascent skills at sorcery by bringing common household items to life and putting them to work. At first, things go well, but eventually he loses control, and chaos ensues. Medical imaging, too, could spin out of control. The benefits of imaging are undeniable. In the past thirty years, innovations like CT, MRI, and PET scanning have not only markedly reduced clinical risk for patients but have also transformed medical practice. Its costs, however, have grown explosively, to the point where imaging expenses have become a political issue. The aggressive adoption of imaging technology has raised issues about the role of inappropriate economic incentives and the role of defensive medicine in driving up medical costs.

Radiologists have utilized imaging technology to transform their practice from a pure diagnostic discipline into a curative one. Radiologists are among the most successful knowledge workers in the entire economy, leveraging digital information technology and Internet connectivity to become the first global medical discipline. Imaging is poised to make a further quantum advance - into the workings of the human cell and the molecular biology of complex disease. Where is this remarkable technology, and the discipline which uses it, headed? How can society make the most responsible use of this powerful new tool? How will imaging and radiologists reshape medical practice? These questions will be answered by *The Sorcerer's Apprentice*.

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.

After reading this book, imagers and CT technologists should better understand the capabilities of modern multidetector CT scanners. Imagers and technologists must understand how their scanners operate in order to take advantage of new capabilities for optimizing protocols that minimize patient dose. In addition, the reader will be better prepared to recognize the pitfalls and artifacts that appear on CT imaging. Some of these are unfamiliar to most imagers and are the product of the large detector arrays offered on new CT scanners.

Reviews the physical principles, clinical applications and quality control issues of computed tomography to prepare reader for the American Registry of Radiologic Technologists (ARRT) certification exam.

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