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Written with the radiography student in mind, Digital Radiography and PACS, 2nd Edition provides the latest information on digital imaging systems, including computed radiography (CR), digital radiography (DR), and picture archiving and communications systems (PACS) as well as the data required by practicing technologists who are transitioning to digital imaging. Coverage of digital imaging and PACS is at just the right level for student radiographers and practicing technologists who are transitioning to digital imaging. Chapter outlines, learning objectives and key terms at the beginning of each chapter orient

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Readers to the chapter content and assist with organizing study and comprehension. Bulleted summaries recap the main points of the chapter, ensuring you focus on the most important concepts conveyed by the chapter. Review questions at the end of each chapter are linked to the chapter objectives. The latest on CR and DR function and image enhancement and processing based on recently published research keeps you current with today's imaging requirements. Complete coverage of PACS workstations, archiving solutions and system architectures provides a sound basis for understanding how individual systems work. Comprehensive quality control and management guidelines for PACS, CR and DR prepare you for on the job success. Careful alignment with digital imaging information required by the ASRT Core Curriculum ensures you are current with today's procedures and modalities.

Written with the radiography student in mind, Digital Radiography and PACS, 3rd Edition addresses today's digital imaging systems, including computed radiography (CR), digital radiography (DR), and picture archiving and communications systems (PACS). This new edition incorporates the latest technical terminology and has been updated to reflect the 2017 ASRT Core Curriculum guidelines. It includes tips on acquiring, processing, and producing clear radiographic images, performing advanced image processing and manipulation functions on

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CR/DR workstations, storing images with PACS workstations, and a guide to quality control and management. Coauthored by radiography educators Christi Carter and Beth Veale, this text is designed to help you produce clear radiographic images and learn to provide safe archiving solutions. Coverage of digital imaging and PACS is provided at the right level for student radiographers and for practicing technologists transitioning to digital imaging. Chapter outlines, learning objectives, and key terms at the beginning of each chapter introduce the chapter content, and help you organize study and boost comprehension. Bulleted summaries recap the main points of each chapter, ensuring that you focus on the most important concepts. Review questions at the end of the chapters are linked to the chapter objectives and help you assess your understanding of the material. NEW! Latest information on digital imaging systems includes computed radiography (CR), digital radiography (DR), and picture archiving and communications systems (PACS) as well as the data required by practicing technologists who are transitioning to digital imaging. NEW! Updated guidelines reflect the 2017 ASRT Core Curriculum. NEW! Latest technical terminology incorporated throughout the text. NEW! Streamlined technical concepts help you understand and digest complicated material. NEW! Chapter focuses specifically on medical informatics in radiography

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PACS: A Guide to the Digital Revolution, Second Edition, fills an incredible need by explaining the technological advances associated with the transition of radiology departments to filmless environments. The editors are leaders in the field of medical imaging and they provide insight into emerging technologies for physicians, administrators, and other interested groups. Chapters address key topics in current literature with regard to the generation, transfer, interpretation, and distribution of images. This new edition has been updated to include: 1. An overview of the latest medical imaging standards; 2. A discussion of security issues as they relate to PACS, especially regarding HIPAA; 3. An introduction to current information on PACS workstations, including the impact of new software and hardware on radiologists; 4. An updated explanation of data storage and compression that highlights how advancements are applied; 5. A section on how PACS influences research and education.

Now in its third edition, Practical Radiotherapy continues to keep pace with current and emerging technologies, patient pathways, and the rapidly expanding role of therapeutic radiographers. Extensively revised and updated, this accessible book examines all the essential aspects of radiotherapy, from the physics and mathematics of radiation

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beams, to in-depth descriptions of the equipment used by radiotherapy practitioners, to new and expanded coverage of MR-linac and Halcyon technology, proton therapy, stereotactic body radiotherapy, sealed-source verification and quality assurance for MV equipment. Covers all the core information essential to radiotherapy practice Describes the major aspects of therapeutic radiography in a practical context Includes images, diagrams, supplemental reading suggestions and more radiotherapy-specific examples Features expanded coverage of legislation, advanced treatment delivery, flattening filter free treatment and more Practical Radiotherapy is a valuable resource for radiotherapy and medical physics students, radiotherapists, therapeutic radiographers, radiation therapists, clinical oncologists and oncology nurses.

This class-tested textbook is designed for a semester-long graduate or senior undergraduate course on Computational Health Informatics. The focus of the book is on computational techniques that are widely used in health data analysis and health informatics and it integrates computer science and clinical perspectives. This book prepares computer science students for careers in computational health informatics and medical data analysis. Features Integrates computer science and clinical perspectives Describes various statistical and

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Artificial intelligence techniques, including machine learning techniques such as clustering of temporal data, regression analysis, neural networks, HMM, decision trees, SVM, and data mining, all of which are techniques used widely used in health-data analysis Describes computational techniques such as multidimensional and multimedia data representation and retrieval, ontology, patient-data deidentification, temporal data analysis, heterogeneous databases, medical image analysis and transmission, biosignal analysis, pervasive healthcare, automated text-analysis, health-vocabulary knowledgebases and medical information-exchange Includes bioinformatics and pharmacokinetics techniques and their applications to vaccine and drug development

This book serves as a supplement to the book 'Digital Radiography: Physical Principles and Quality Control, 2nd Edition (ISBN 978-981-13-3243-2)' published by Springer Nature in 2019. This book includes review questions of multiple choices, true/false and short answer formats based on the chapters of the already published book along with their answers. It includes questions that mimic the nature of the questions in certification examinations of professional radiologic technologist organizations, such as the American Association of Radiological Technologists (ASRT) and the Canadian

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Association of Medical Radiation Technologists (CAMRT) and other certification organizations in the United Kingdom and Australia. The book includes 10–15 review questions on each of the essential topics covering the scope of digital radiography (DR), such as definition of DR, limitations of film–screen radiography, digital image processing concepts, physics and technology of computed radiography (CR), flat-panel digital radiography (FPDR), image quality descriptors including artifacts for CR and FPDR, the standardized exposure indicator, the technical aspects of digital fluoroscopy, digital mammography, digital tomosynthesis, picture archiving and communication systems (PACS), imaging informatics, quality control for DR, and radiation dose optimization in DR. The book is relevant for diagnostic radiography students, diagnostic radiology residents (MDs), radiology practitioners and biomedical engineering technologists all over the world.

Advances in digital technology led to the development of digital x-ray detectors that are currently in wide use for projection radiography, including Computed Radiography (CR) and Digital Radiography (DR). Digital Imaging Systems for Plain Radiography addresses the current technological methods available to medical imaging professionals to ensure the optimization of the radiological process concerning image

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Quality and reduction of patient exposure. Based on extensive research by the authors and reference to the current literature, the book addresses how exposure parameters influence the diagnostic quality in digital systems, what the current acceptable radiation doses are for useful diagnostic images, and at what level the dose could be reduced to maintain an accurate diagnosis. The book is a valuable resource for both students learning the field and for imaging professionals to apply to their own practice while performing radiological examinations with digital systems.

This is the second edition of a well-received book that enriches the understanding of radiographers and radiologic technologists across the globe, and is designed to meet the needs of courses (units) on radiographic imaging equipment, procedures, production, and exposure. The book also serves as a supplement for courses that address digital imaging techniques, such as radiologic physics, radiographic equipment and quality control. In a broader sense, the purpose of the book is to meet readers' needs in connection with the change from film-based imaging to film-less or digital imaging; today, all radiographic imaging worldwide is based on digital imaging technologies. The book covers a wide range of topics to address the needs of members of various professional radiologic technology associations, such as the

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American Society of Radiologic Technologists, the Canadian Association of Medical Radiation Technologists, the College of Radiographers in the UK, and the Australian and New Zealand Societies for Radiographers.

Long overdue, this new work provides just the right focus and scope for the practice of radiography in this digital age, covering four entire courses in a typical radiography program. The entire emphasis of foundational physics has been adjusted in order to properly support the specific information on digital imaging that will follow. The paradigm shift in imaging terminology is reflected by the careful phrasing of concepts, accurate descriptions and clear illustrations throughout the book. There are 713 illustrations, including meticulous color line drawings, numerous photographs and stark radiographs. The two chapters on digital image processing alone include 60 beautifully executed illustrations. Foundational chapters on math and basic physics maintain a focus on energy physics. Obsolete and extraneous material has been eliminated, while concepts supporting digital imaging are more thoroughly discussed. All discussion of electricity is limited to only those concepts which bear directly upon the production of x-rays in the x-ray tube. Following is a full discussion of the x-ray beam and its interactions within the patient, the

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production and characteristics of subject contrast, and an emphasis on the practical application of radiographic technique. This is conventional information, but the terminology and descriptions used have been adapted with great care to the digital environment. No fewer than ten chapters are devoted directly to digital imaging, providing extensive coverage of the physics of digital image capture, digital processing techniques, and the practical applications of both CR and DR. Image display systems are brought up to date with the physics of LCD screens and electronic images. PACS and medical imaging informatics are also covered. Chapters on Radiation Biology and Protection include an unflinching look at current issues and radiation protection in practice. The radiation biology is clearly presented with numerous lucid illustrations, and a balanced perspective on radiation and its medical use is developed. To reinforce mathematical concepts for the student, dozens of practice exercises are strategically dispersed throughout the chapters, with answer keys provided in the appendix. Extensive review questions at the end of each chapter give a thorough, comprehensive review of the material learned. The Instructor Resources for Radiography in the Digital Age, available on disc, includes the answer key for all chapter review questions and a bank of over 1500 multiple-choice questions for instructors' use. It also includes 35 laboratory exercises, including

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15 that demonstrate the applications of CR equipment.

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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