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Practical and comprehensive, this resource offers up-to-date coverage of computed radiography, digital radiography, and PACS. It explores the differences between conventional and digital imaging systems and how computed and digital radiography systems fit within the radiology department. State-of-the art information on image acquisition, exposure guidelines, and quality control help you obtain the best possible radiographs. You'll also learn about PACS workstations, archiving, film digitization, image printing, and more. Discusses the similarities

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and differences between conventional and digital systems. Introduces basic computer components and networking concepts for a solid foundation in the principles of computing. Provides balanced coverage of computed radiography (CR), digital radiography (DR), and PACS systems. Includes step-by-step guidance for acquiring, processing, and producing radiographic images using CR/DR technologies. Explores the CR/DR quality workstation, as well as advanced image processing and manipulation functions available on many of the latest CR/DR workstations.

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Offers complete coverage of PACS workstations, archiving solutions, and system architectures, including information on film digitization, printing images, and preparing image files. Provides comprehensive quality control and management guidelines for PACS, CR, and DR. Chapter objectives, chapter summaries, key terms, and review questions reinforce key concepts and help you retain and recall important information.

Written with the radiography student in mind, Digital Radiography and PACS, 2nd Edition provides the latest

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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 readers to the chapter content and assist with organizing study

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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

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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.

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,

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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

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technology associations, such as the 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.

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

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radiotherapy, from the
physics and mathematics of
radiation beams, to in-depth
descriptions of the
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in a practical context
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suggestions and more
radiotherapy-specific
examples Features expanded
coverage of legislation,
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Radiotherapy is a valuable
resource for radiotherapy
and medical physics
students, radiotherapists,
therapeutic radiographers,
radiation therapists,
clinical oncologists and
oncology nurses.

Advances in digital
technology led to the
development of digital x-ray
detectors that are currently
in wide use for projection
radiography, including

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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 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

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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 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

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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 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

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By Carter, Mrs. R. Christi
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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

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is relevant for diagnostic radiography students, diagnostic radiology residents (MDs), radiology practitioners and biomedical engineering technologists all over the world.

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

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students for careers in
computational health
informatics and medical data
analysis. Features

Integrates computer science
and clinical perspectives
Describes various
statistical and 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

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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

Over recent years there has
been a vast expansion in the
variety of imaging
techniques available, and
developments in machine
specifications continue

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By Carter. If radiologists and radiographers are to obtain optimal image quality while minimising exposure times, a good understanding of the fundamentals of the radiological science underpinning diagnostic imaging is essential. The second edition of this well-received textbook continues to cover all technical aspects of diagnostic radiology, and remains an ideal companion during examination preparation and beyond. The content includes a review of basic science aspects of imaging, followed by a detailed explanation of radiological sciences, conventional x-ray image

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formation and other imaging techniques. The enormous technical advances in computed tomography, including multislice acquisition and 3D image reconstruction, digital imaging in the form of image plate and direct radiography, magnetic resonance imaging, colour flow imaging in ultrasound and positron radiopharmaceuticals in nuclear medicine, are all considered here. A chapter devoted to computers in radiology considers advances in radiology information systems and computer applications in image storage and communication

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systems. The text concludes with a series of general topics relating to diagnostic imaging. The content has been revised and updated throughout to ensure it remains in line with the Fellowship of the Royal College of Radiologists (FRCR) examination, while European and American perspectives on technology, guidelines and regulations ensure international relevance.

This is the second edition of a very popular book on DICOM that introduces this complex standard from a very practical point of view. It is aimed at a broad audience

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of radiologists, clinical administrators, information technologists, medical students, and lecturers. The book provides a gradual, down to earth introduction to DICOM, accompanied by an analysis of the most common problems associated with its implementation. Compared with the first edition, many improvements and additions have been made, based on feedback from readers.

Whether you are running a teleradiology project or writing DICOM software, this book will provide you with clear and helpful guidance. It will prepare you for any DICOM projects or problem solving, and assist you in

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By Carter Moore, Rita Christi
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This textbook reviews the technological developments associated with the transition of radiology departments to filmless environments. Each chapter addresses the key topics in current literature with regard to the generation, transfer, interpretation and distribution of images to the medical enterprise. As leaders in the field of computerized medical imaging, the editors and contributors will provide insight into emerging technologies for physicians,

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administrators, and other interested groups. As health care organizations throughout the world begin to generate filmless implementation strategies, this exhaustive review has proven to be a vital aid to leaders in the development of health care.

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