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Dr. Ahmet Mesrur Halefo?lu mostly deals with research fields in body imaging and neuroradiology with multidetector computed tomography and high-resolution magnetic resonance imaging. He has served as postdoctoral

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research fellow at Johns Hopkins Hospital. Currently, he is working as an associate professor of radiology in Istanbul, Turkey. He has more than 50 high-impact-factor publications and has written 3 book chapters. He is a member of Turkish Society of Radiology and European Society of

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Radiology. During the recent years, there have been major breakthroughs in MRI due to developments in scanner technology and pulse sequencing. These important achievements have led to remarkable improvements in neuroimaging and advanced techniques, including diffusion imaging, diffusion

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tensor imaging, perfusion imaging, magnetic resonance spectroscopy, and functional MRI. These advanced neuroimaging techniques have enabled us to achieve invaluable insights into tissue microstructure, microvasculature, metabolism, and brain connectivity.

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X-ray computed tomography has been used for several decades as a tool for measuring the three-dimensional geometry of the internal organs in medicine. However, in recent years, we have seen a move in manufacturing industries for the use of X-ray computed tomography; first to give

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qualitative information about the internal geometry and defects in a component, and more recently, as a fully-quantitative technique for dimensional and materials analysis. This trend is primarily due to the ability of X-ray computed tomography to give a high-density and multi-scale

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representation of both the external and internal geometry of a component, in a non-destructive, non-contact and relatively fast way. But, due to the complexity of X-ray computed tomography, there are remaining metrological issues to solve and the specification standards are still under

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development. This book will act as a one-stop-shop resource for students and users of X-ray computed tomography in both academia and industry. It presents the fundamental principles of the technique, detailed descriptions of the various components (hardware and software), current developments in

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calibration and performance verification and a wealth of example applications. The book will also highlight where there is still work to do, in the perspective that X-ray computed tomography will be an essential part of Industry 4.0.

Spectral, Photon Counting Computed

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Tomography is a comprehensive cover of the latest developments in the most prevalent imaging modality (x-ray computed tomography (CT)) in its latest incarnation: Spectral, Dual-Energy, and Photon Counting CT. Disadvantages of the conventional single-energy technique used by CT technology are

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that different materials cannot be distinguished and that the noise is larger. To address these problems, a novel spectral CT concept has been proposed. Spectral Dual-Energy CT (DE-CT) acquires two sets of spectral data, and Spectral Photon Counting CT (PC-CT) detects energy of x-ray

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photons to reveal additional material information of objects by using novel energy-sensitive, photon-counting detectors. The K-edge imaging may be a gateway for functional or molecular CT. The book covers detectors and electronics, image reconstruction methods, image quality assessments, a

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simulation tool, nanoparticle contrast agents, and clinical applications for spectral CT.

This is a Pageburst digital textbook; Radiologic technologists play an important role in the care and management of patients undergoing advanced imaging procedures. This new

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edition provides the up-to-date information and thorough coverage you need to understand the physical principles of computed tomography (CT) and safely produce high-quality images. You'll gain valuable knowledge about the practice of CT scanning, effective communication with other

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medical personnel, and sectional
anatomic images as they relate to CT.

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Medical Imaging Technology

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Vascular Imaging of the Central

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Nervous System

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Nuclear Medicine is a diagnostic modality which aims to image and in some cases quantify physiological processes in the body to highlight disease or injury.

Within nuclear medicine, over the past few decades, major technological changes have occurred and concomitantly changes in the knowledge and skills required have had to evolve. One of the most significant technological changes has been the

fusion of imaging technologies, to create hybrid systems such as SPECT/CT, PET/CT and PET/MR. With these changes in mind, Practical SPECT/CT in Nuclear Medicine provides a handy and informative guide to the purchase, clinical implementation and routine

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use of a SPECT/CT scanner.

*Practical SPECT/CT in Nuclear
Medicine will be a valuable resource
for all personnel working in nuclear
medicine and it will be of particular
value to trainees.*

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and Quality Control Saunders
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***Essential reading for both clinicians
and researchers, this
comprehensive resource covers
what you need to know about the
basic principles of perfusion, as
well as its many clinical
applications. Broad coverage***

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outlines the overarching framework that interlinks methods such as DSC, DCE, CTP, and ASL. International experts in the field demonstrate how perfusion and pharmacokinetic imaging can be effectively used to analyze medical conditions, helping you reach

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***accurate diagnoses and monitor
disease progression and response
to therapy.***

***This renowned work is derived from
the authors' acclaimed national
review course ("Physics of Medical
Imaging") at the University of
California-Davis for radiology***

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residents. The text is a guide to the fundamental principles of medical imaging physics, radiation protection and radiation biology, with complex topics presented in the clear and concise manner and style for which these authors are known. Coverage includes the

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production, characteristics and interactions of ionizing radiation used in medical imaging and the imaging modalities in which they are used, including radiography, mammography, fluoroscopy, computed tomography and nuclear medicine. Special attention is paid

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to optimizing patient dose in each of these modalities. Sections of the book address topics common to all forms of diagnostic imaging, including image quality and medical informatics as well as the non-ionizing medical imaging modalities of MRI and ultrasound. The basic

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***science important to nuclear
imaging, including the nature and
production of radioactivity, internal
dosimetry and radiation detection
and measurement, are presented
clearly and concisely. Current
concepts in the fields of radiation
biology and radiation protection***

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relevant to medical imaging, and a number of helpful appendices complete this comprehensive textbook. The text is enhanced by numerous full color charts, tables, images and superb illustrations that reinforce central concepts. The book is ideal for medical imaging

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professionals, and teachers and students in medical physics and biomedical engineering. Radiology residents will find this text especially useful in bolstering their understanding of imaging physics and related topics prior to board exams.

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***A Practical Approach to Clinical
Protocols***

***Veterinary Computed Tomography
Emission Tomography***

***Spectral, Photon Counting
Computed Tomography
From Photon Statistics to Modern***

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Cone-Beam CT
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This open access book gives a complete and comprehensive introduction to the fields of medical imaging systems, as designed for a broad range of applications. The authors of the

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book first explain the foundations of system theory and image processing, before highlighting several modalities in a dedicated chapter. The initial focus is on modalities that are closely related to

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traditional camera systems
such as endoscopy and
microscopy. This is followed by
more complex image formation
processes: magnetic resonance
imaging, X-ray projection
imaging, computed

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tomography, X-ray phase-
contrast imaging, nuclear
imaging, ultrasound, and
optical coherence tomography.
This is a Pageburst digital
textbook; Radiologic
technologists play an important

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role in the care and
management of patients
undergoing advanced imaging
procedures. This new edition
provides the up-to-date
information and thorough
coverage you need to

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understand the physical
principles of computed
tomography (CT) and safely
produce high-quality images.
You'll gain valuable knowledge
about the practice of CT
scanning, effective

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communication with other
medical personnel, and
sectional anatomic images as
they relate to CT.

Comprehensively covers CT at
just the right depth for
technologists - going beyond

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superficial treatment to
accommodate all the major
advances in CT. One complete
CT resource covers what you
need to know! Brings you up to
date with the latest in multi-
slice spiral CT and its

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applications - the only text to
include full coverage of this
important topic. Features a
chapter devoted to quality
control testing of CT scanners
(both spiral CT and
conventional scan-and-stop),

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helping you achieve and maintain high quality control standards. Provides the latest information on: advances in volume CT scanning; CT fluoroscopy; multi-slice spiral/helical CT; and multi-

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slice applications such as 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

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control. Two new chapters
cover recent developments and
important principles of
multislice CT and PET/CT,
giving you in-depth coverage of
these quickly emerging aspects
of CT. Nearly 100 new line

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drawings and images illustrate difficult concepts, helping you learn and retain information. All-new material updates you on today's CT scanners, CT and PACS, image quality and quality control for multislice CT

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scanners, and clinical
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applications.

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terms, concepts, persons,
places, and events are included.
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practice tests. Only Cram101 is
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X-Ray Computed Tomography

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in Biomedical Engineering
Quality Control 3rd Edition
Basic Physical Principles and
Clinical Applications
Farr's Physics for Medical
Imaging
Technology and Applications
Practical SPECT/CT in Nuclear

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Medicine
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Problem-Based Learning

PET and SPECT are two of today ' s most important medical-imaging methods, providing images that reveal subtle information about physiological processes in humans and animals. Emission

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Tomography: The Fundamentals of PET and SPECT explains the physics and engineering principles of these important functional-imaging methods. The technology of emission tomography is covered in detail, including historical origins, scientific and mathematical foundations, imaging systems and their

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components, image reconstruction and analysis, simulation techniques, and clinical and laboratory applications. The book describes the state of the art of emission tomography, including all facets of conventional SPECT and PET, as well as contemporary topics such as iterative image reconstruction, small-animal

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imaging, and PET / CT systems. This book is intended as a textbook and reference resource for graduate students, researchers, medical physicists, biomedical engineers, and professional engineers and physicists in the medical-imaging industry. Thorough tutorials of fundamental and advanced topics are presented by dozens

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of the leading researchers in PET and SPECT. SPECT has long been a mainstay of clinical imaging, and PET is now one of the world ' s fastest growing medical imaging techniques, owing to its dramatic contributions to cancer imaging and other applications. Emission Tomography: The Fundamentals of PET and SPECT is an

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essential resource for understanding the technology of SPECT and PET, the most widely used forms of molecular imaging.

*Contains thorough tutorial treatments, coupled with coverage of advanced topics

*Three of the four holders of the prestigious Institute of Electrical and Electronics Engineers Medical Imaging

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Scientist Award are chapter contributors

* Include color artwork

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

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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.

Radiologic technologists play an important role in the care and management of

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patients undergoing advanced imaging procedures. This new edition provides the up-to-date information and thorough coverage you need to understand the physical principles of computed tomography (CT) and safely produce high-quality images. You'll gain valuable knowledge about the practice of CT

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scanning, effective communication with other medical personnel, and sectional anatomic images as they relate to CT. 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

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what you need to know! Brings you up to date with the latest in multi-slice spiral CT and its applications - the only text to include full coverage of this important topic. Features a chapter devoted to quality control testing of CT scanners (both spiral CT and conventional scan-and-stop), helping you achieve and maintain

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high quality control standards. Provides the latest information on: advances in volume CT scanning; CT fluoroscopy; multi-slice spiral/helical CT; and multi-slice applications such as 3-D imaging, CT angiography, and virtual reality imaging (endoscopy) - all with excellent coverage of state-of-the-art principles, instrumentation,

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clinical applications and quality control. Two new chapters cover recent developments and important principles of multislice CT and PET /CT, giving you in-depth coverage of these quickly emerging aspects of CT. Nearly 100 new line drawings and images illustrate difficult concepts, helping you learn and retain

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information. All-new material updates you on today's CT scanners, CT and PACS, image quality and quality control for multislice CT scanners, and clinical applications.

From the author of our best-selling handbook on helical (spiral) CT comes a brand-new, indispensable, practical guide

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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.

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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

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manufacturer.
Physical Principles and Clinical
Applications
Radiation Exposure and Image Quality in
X-Ray Diagnostic Radiology
Medical Imaging Systems
Physical Principles, Clinical Applications
& Quality Control

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MDCCT: A Practical Approach
Neuroimaging

Medical Imaging Technology
reveals the physical and
materials principles of medical
imaging and image processing,
from how images are obtained to

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how they are used. It covers all aspects of image formation in modern imaging modalities and addresses the techniques, instrumentation, and advanced materials used in this rapidly changing field. Covering

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conventional and modern
medical imaging techniques, this
book encompasses radiography,
fluoroscopy, computed
tomography, magnetic
resonance imaging, ultrasound,
and Raman spectroscopy in

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medicine. In addition to the physical principles of imaging techniques, the book also familiarizes you with the equipment and procedures used in diagnostic imaging. Addresses the techniques, instrumentation,

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and advanced materials used in
medical imaging Provides
practical insight into the skills,
tools, and procedures used in
diagnostic imaging Focuses on
selenium imagers and
chalcogenide glasses

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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

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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

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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

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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

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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

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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

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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

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concentrate on the most important chapter content and study more efficiently. NEW! Full labels on all scans provide greater diagnostic detail at a glance.

Diagnostic X-rays are the largest

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contributor to radiation exposure. Protecting the patient from radiation is a major aim of modern health policy, and an understanding of the relationship between radiation dose and image quality is pivotal to

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optimising medical diagnostic radiology. In this volume the data provided for exploring these concerns are partly based on X-ray spectra, measured on diagnostic X-ray tube assemblies, and are

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supplemented by the results of measurements on phantoms and simulation calculations. X-ray mammography data makes up the main part of this book. The book also features an extremely useful CD-ROM containing a

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comprehensive database in the
form of Excel-files.

This publication is a
compendium of physical
principles, system descriptions,
instrument quality assurance,
and clinical applications of extant

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tomographic methods in nuclear
medicine. Written by an expert in
this pertinent field, each chapter
deals with the topics in a
comprehensive fashion to
provide a ready reference of all
the work done on the subject and

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an estimate of the future utilization. Descriptions of methods available to nuclear medicine for tomographic viewing include positron emission, single photon emission, and planar

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tomography. This is an excellent resource volume of general applicability for nuclear medicine physicians, nuclear medicine scientists, and researchers in organ imaging and processing techniques.

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Physical Principles, Clinical
Applications, and Quality Control
The Physics of Medical Imaging
Physical Principles of Medical
Imaging
Cardiac Computed Tomography
Physical Principles, Clinical

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Applications, and Emerging
Techniques

Registry Review in Computed
Tomography

*Destined to become the
new benchmark among
reference books for*

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*neuroradiology, this
book is unique in its
coverage of all imaging
modalities and
techniques used in
modern imaging of the
nervous system, head,*

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*neck and spine. Also
discussed are the
principles that underlie
CT and MR imaging.
X-ray computed
tomography (CT)
continues to experience*

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*rapid growth, both in
basic technology and new
clinical applications.*

*Seven years after its
first edition, Computed
Tomography: Principles,
Design, Artifacts, and*

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*Recent Advancements,
Second Edition, provides
an overview of the
evolution of CT, the
mathematical and
physical aspects of the
technology, and the*

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*fundamentals of image
reconstruction*

*algorithms. Image
display is examined from
traditional methods used
through the most recent
advancements. Key*

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*performance indices,
theories behind the
measurement
methodologies, and
different measurement
phantoms in image
quality are discussed.*

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The CT scanner is broken down into components to provide the reader with an understanding of their function, their latest advances, and their impact on the CT

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*system. General
descriptions and
different categories of
artifacts, their causes,
and their corrections
are considered at
length. Given the high*

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*visibility and public
awareness of the impact
of x-ray radiation, the
second edition features
a new chapter on x-ray
dose and presents
different dose reduction*

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*techniques ranging from
patient handling,
optimal data
acquisition, image
reconstruction, and post-
process. Based on the
advancements over the*

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*past five years, the
second edition added new
sections on cone beam
reconstruction
algorithms,
nonconventional helical
acquisition and*

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*reconstruction, new
reconstruction*

*approaches, and dual-
energy CT. Finally, new
to this edition is a set
of problems for each
chapter, providing*

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*opportunities to enhance
reader comprehension and
practice the application
of covered material.*

*This volume provides an
overview of X-ray
technology and the*

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*historical development
of modern CT systems.*

*The main focus of the
book is a detailed
derivation of
reconstruction
algorithms in 2D and*

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*modern 3D cone-beam
systems. A thorough
analysis of CT artifacts
and a discussion of
practical issues such as
dose considerations give
further insight into*

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current CT systems.

*Although written mainly
for graduate students,
practitioners will also
benefit from this book.
Previous ed. published
as: Physics for medical*

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imaging / R.F. Farr.
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*Principles, Design,
Artifacts, and Recent
Advances*

*Studyguide for Computed
Tomography*

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**Sectional Anatomy for
Imaging Professionals -
E-Book**

***The Fundamentals of PET
and SPECT***

***Physical Principles,
Clinical Applications,***

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and Quality Control by
Euclid Seeram RT (R) BSc

MSc FCAMR

*Physical Principles,
Instruments, and
Clinical Applications*

This is a Pageburst digital textbook;

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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

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**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**

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165-question mock exams. A companion Evolve website includes a test bank of 635 questions that can be randomly sampled to create unlimited variations -- so you never take the same test twice. Review questions with answers help you

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**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**

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**covers the three content areas on the
computed tomography advanced
certification exam: patient care,
imaging procedures, and
physics/instrumentation. Mock
exams in the book and on the Evolve
website prepare you for the ARRT**

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exam, with three 165-question mock exams in the book and 635 questions on Evolve that may be randomly accessed for an unlimited number of exam variations. Study aids on Evolve allow you to bookmark questions for later study, see

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