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thoroughly covers  
the fast-changing  
field of nuclear  
medicine and  
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rotations, and  
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Janis O'Malley  
and Harvey

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content on  
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(PET), SPECT/CT,  
PET/CT, and  
PET/MRI hybrid

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imaging. Inclusion of newly approved tracers such as Ga68 DOTA, F-18 amyloid, and F-18 PSMA. Expanded and integrated content on physics and non-interpretive aspects, including regulatory issues,

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radiation safety,  
and quality  
control. Up-to-  
date applications  
of nuclear  
medicine in the  
endocrine,  
skeletal,  
hepatobiliary,  
genitourinary,  
pulmonary,  
gastrointestinal,

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central nervous,  
and cardiac  
systems, as well  
as PET  
applications for  
oncology. In the  
outstanding  
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tradition, the 5th  
Edition also:  
Summarizes key  
information with

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numerous  
outlines, tables,  
pearls, pitfalls,  
and frequently  
asked questions.

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essentials to pass  
the certifying  
board exam and  
ensure accurate  
diagnoses in  
clinical practice.



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Helps you clearly visualize the findings you're likely to see in practice and on exams with nearly 200 full-color images.

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the advances and changes that have been made since it was last revised. It not only presents new ideas and information, it shifts its emphases to accurately reflect the inevitably

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changing perspectives in the field engendered by progress in the understanding of radiological physics. The rapid development of computing technology in the three decades

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since the publication of the fourth edition has enabled the equally rapid expansion of radiology, radiation oncology, nuclear medicine and radiobiology. The understanding of

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these clinical disciplines is dependent on an appreciation of the underlying physics. The basic radiation physics of relevance to clinical oncology, radiology and nuclear medicine has undergone

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little change over the last 70 years, so much of the material in the introductory chapters retains the essential flavour of the fourth edition, updated as required. This book is written to

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help the  
practitioners in  
these fields  
understand the  
physical science,  
as well as to serve  
as a basic tool for  
physics students  
who intend  
working as  
medical radiation  
physicists in these

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clinical fields. It is the authors' hope that students and practitioners alike will find the fifth edition of The Physics of Radiology lucid and straightforward. This text is an invaluable,



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comprehensive  
data reference for  
anyone involved  
in health physics  
or radiation  
safety. This new  
edition addresses  
the specific data  
requirements of  
health physicists,  
with data  
presented in large

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tables, including the latest NCRP recommendations, which are tabulated and given in both SI and traditional units for ease of use. Although portions of these data can be obtained from

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various internet sites, many are obscure, difficult to navigate and/or have conflicting information for even the most common data, such as specific gamma ray constants. This new edition

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compiles all essential data in this vast field into one user-friendly, authoritative source. It also offers a website with full-text search capability. Markets include radiation safety, medical physics

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and nuclear  
Edition  
medicine

The Physics of  
Clinical MR  
Taught Through  
Images Fourth  
Edition by Val  
Runge, Wolfgang  
Nitz, and  
Johannes  
Heverhagen  
presents a unique

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and highly practical approach to understanding the physics of magnetic resonance imaging. Each physics topic is described in user-friendly language and accompanied

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by high-quality graphics and/or images. The visually rich format provides a readily accessible tool for learning, leveraging, and mastering the powerful diagnostic capabilities of

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MRI. Key  
Features More  
than 700 images,  
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drawings, clinical  
tables, charts, and  
diagrams,  
including  
magnetization  
curves and pulse  
sequencing,  
facilitate



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acquisition of highly technical content. Eight systematically organized sections cover core topics: hardware and radiologic safety; basic image physics; basic and advanced image

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acquisition; flow effects; techniques specific to the brain, heart, liver, breast, and cartilage; management and reduction of artifacts; and improvements in MRI diagnostics

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and technologies.  
Cutting-edge  
topics including  
contrast-enhanced  
MR angiography,  
spectroscopy,  
perfusion, and  
advanced parallel  
imaging/data  
sparsity  
techniques.  
Discussion of

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groundbreaking  
hardware and  
software  
innovations, such  
as MR-PET, 7 T,  
interventional  
MR, 4D flow,  
CAIPIRINHA,  
radial acquisition,  
simultaneous  
multislice, and  
compressed

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sensing. A handy appendix provides a quick reference of acronyms, which often differ from company to company. The breadth of coverage, rich visuals, and succinct text make this manual

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the perfect  
reference for  
radiology  
residents,  
practicing  
radiologists,  
researchers in  
MR, and  
technologists.  
The Physics of  
Radiology  
Physics and

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Radiobiology of  
Nuclear Medicine  
Airport Passenger  
Screening Using  
Backscatter X-Ray  
Machines

Compliance with  
Standards

A  
straightforward  
presentation of

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the broad  
concepts  
underlying  
radiological  
physics and  
radiation  
dosimetry for  
the graduate-  
level student.  
Covers photon  
and neutron  
attenuation,  
radiation and  
charged particle



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equilibrium,  
interactions of  
photons and  
charged  
particles with  
matter,  
radiotherapy  
dosimetry, as  
well as  
photographic,  
calorimetric,  
chemical, and th  
ermoluminescence  
dosimetry.

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Includes many new derivations, such as Kramers X-ray spectrum, as well as topics that have not been thoroughly analyzed in other texts, such as broad-beam attenuation and geometrics, and the

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reciprocity  
theorem.

Subjects are  
laid out in a  
logical  
sequence, making  
the topics  
easier for  
students to  
follow.

Supplemented  
with numerous  
diagrams and  
tables.

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An up-to-date edition of the authoritative text on the physics of medical imaging, written in an accessible format. The extensively revised fifth edition of Hendee's Medical Imaging Physics,

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offers a guide  
to the  
principles,  
technologies,  
and procedures  
of medical  
imaging.

Comprehensive in  
scope, the text  
contains  
coverage of all  
aspects of image  
formation in  
modern medical

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imaging modalities including radiography, fluoroscopy, computed tomography, nuclear imaging, magnetic resonance imaging, and ultrasound. Since the publication of

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the fourth edition, there have been major advances in the techniques and instrumentation used in the ever-changing field of medical imaging. The fifth edition offers a comprehensive reflection of

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these advances including digital projection imaging techniques, nuclear imaging technologies, new CT and MR imaging methods, and ultrasound applications. The new edition also takes a



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radical strategy  
in organization  
of the content,  
offering the  
fundamentals  
common to most  
imaging methods  
in Part I of the  
book, and  
application of  
those  
fundamentals in  
specific imaging  
modalities in

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Part II. These fundamentals also include notable updates and new content including radiobiology, anatomy and physiology relevant to medical imaging, imaging science, image processing,

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image display,  
and information  
technologies.  
The book makes  
an attempt to  
make complex  
content in  
accessible  
format with  
limited  
mathematical  
formulation. The  
book is aimed to  
be accessible by

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most  
professionals  
with lay readers  
interested in  
the subject. The  
book is also  
designed to be  
of utility for  
imaging  
physicians and  
residents,  
medical physics  
students, and  
medical

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physicists and  
radiologic  
technologists  
preparing for  
certification  
examinations.

The revised  
fifth edition of  
Hendee's Medical  
Imaging Physics  
continues to  
offer the  
essential  
information and

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insights needed  
to understand  
the principles,  
the  
technologies,  
and procedures  
used in medical  
imaging.

Rev. ed. of:  
Principles of  
radiological  
physics / Donald  
T. Graham, Paul  
Cloke, Martin

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Vosper. 5th ed.  
2007.

Dr. Khan's  
classic textbook  
on radiation  
oncology physics  
is now in its  
thoroughly  
revised and  
updated Fourth  
Edition. It  
provides the  
entire radiation  
therapy

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team—radiation  
oncologists,  
medical  
physicists,  
dosimetrists,  
and radiation  
therapists—with  
a thorough  
understanding of  
the physics and  
practical  
clinical  
applications of  
advanced



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radiation  
therapy  
technologies,  
including 3D-  
CRT,  
stereotactic  
radiotherapy,  
HDR, IMRT, IGRT,  
and proton beam  
therapy. These  
technologies are  
discussed along  
with the  
physical

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concepts  
underlying  
treatment  
planning,  
treatment  
delivery, and  
dosimetry. This  
Fourth Edition  
includes brand-  
new chapters on  
image-guided  
radiation  
therapy (IGRT)  
and proton beam

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therapy. Other chapters have been revised to incorporate the most recent developments in the field. This edition also features more than 100 full-color illustrations throughout. A companion

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offer the fully  
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and an image  
bank.

Health Physics  
and Radiological  
Health  
Medical Imaging  
Physics  
Khan's The  
Physics of  
Radiation  
Therapy

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Nuclear Medicine  
and Molecular  
Imaging: The  
Requisites E-  
Book

Radiobiology for  
the Radiologist  
*A dynamic, all-  
inclusive overview of  
the field of health  
physics If it's an  
important topic in the  
field of health*

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in this trusted text . . .*

*in sections on*

*physical principles,*

*atomic and nuclear*

*structure,*

*radioactivity,*

*biological effects of*

*radiation, and*

*instrumentation. This*

*one-of-a-kind guide*

*spans the entire scope*

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*of the field and offers a problem-solving approach that will serve you throughout your career. Features: A thorough overview of need-to-know topics, from a review of physical principles to a useful look at the interaction of*

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*radiation with matter  
Chapter-ending  
practice problems to  
solidify your grasp of  
health physics topics  
and their real-world  
application Essential  
background material  
on quantitative risk  
assessment for health-  
threatening radiation  
dangers Authoritative*



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*radiation safety and  
environmental health  
coverage that  
supports the  
International  
Commission on  
Radiological  
Protection's standards  
for specific  
populations High-  
yield appendices to  
expand your*

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*comprehension of  
chapter material:*

*Values of Some  
Useful Constants,  
Table of the  
Elements, The  
Reference Person,  
Specific Absorbed  
Fraction of Photon  
Energy, and Total  
Mass Attenuation  
Coefficients NEW!*

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*Essential coverage of  
non-ionizing*

*radiation-laser and  
microwaves,*

*computer use in dose  
calculation, and dose  
limit*

*recommendations*

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author comes this  
new edition for  
technologists,*

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*practitioners,*

*residents, and*

*students in radiology*

*and nuclear*

*medicine.*

*Encompassing major*

*topics in nuclear*

*medicine from the*

*basic physics of*

*radioactive decay to*

*instrumentation and*

*radiobiology, it is an*

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*ideal review for  
Board and Registry  
examinations. The  
material is well  
organized and written  
with clarity. The book  
is supplemented with  
tables and  
illustrations  
throughout. It  
provides a quick  
reference book that is*

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*concise but  
comprehensive, and  
offers a complete  
discussion of topics  
for the nuclear  
medicine and  
radiology physician  
in training.*

*This comprehensive  
publication covers all  
aspects of image  
formation in modern*

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*medical imaging modalities, from radiography, fluoroscopy, and computed tomography, to magnetic resonance imaging and ultrasound. It addresses the techniques and instrumentation used*

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*in the rapidly  
changing field of  
medical imaging.  
Now in its fourth  
edition, this text  
provides the reader  
with the tools  
necessary to be  
comfortable with the  
physical principles,  
equipment, and  
procedures used in*



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*diagnostic imaging,  
as well as appreciate  
the capabilities and  
limitations of the  
technologies.*

*The Third Edition of  
Radiation Therapy  
Physics addresses in  
concise fashion the  
fundamental  
diagnostic radiologic  
physics principles as*

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Edition.

*well as their clinical implications. Along with coverage of the concepts and applications for the radiation treatment of cancer patients, the authors have included reviews of the most up-to-date instrumentation and critical historical*

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*links. The text includes coverage of imaging in therapy planning and surveillance, calibration protocols, and precision radiation therapy, as well as discussion of relevant regulation and compliance activities. It contains*

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*an updated and  
expanded section on  
computer applications  
in radiation therapy  
and electron beam  
therapy, and features  
enhanced user-  
friendliness and  
visual appeal with a  
new, easy-to-follow  
format, including  
sidebars and a larger*

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*trim size. With its  
user-friendly  
presentation and  
broad,  
comprehensive  
coverage of  
radiotherapy physics,  
this Third Edition  
doubles as a medical  
text and handy  
professional  
reference.*

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*Johns and  
Cunningham's The  
Physics of Radiology  
Reeder and Felson's  
Gamuts in Radiology  
The Essential Physics  
of Medical Imaging  
Christensen's Physics  
of Diagnostic  
Radiology  
Principles and  
Applications of*

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*Radiological Physics*  
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

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*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*



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*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*

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*two end-of-book  
practice exams,  
each with 100  
additional  
questions, offer a  
comprehensive  
review of the full  
range of topics.  
Established as the  
leading textbook  
on imaging  
diagnosis of brain  
and spine  
disorders,*

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Edition  
*Magnetic  
Resonance*

*Imaging of the  
Brain and Spine is  
now in its Fourth  
Edition. This  
thoroughly  
updated two-  
volume reference  
delivers cutting-  
edge information  
on nearly every  
aspect of clinical  
neuroradiology.*

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*Expert  
neuroradiologists,  
innovative  
renowned MRI  
physicists, and  
experienced  
leading clinical  
neurospecialists  
from all over the  
world show how to  
generate state-of-  
the-art images and  
define diagnoses  
from crucial*

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*clinical/pathologic  
MR imaging  
correlations for  
neurologic,  
neurosurgical, and  
psychiatric  
diseases spanning  
fetal CNS  
anomalies to  
disorders of the  
aging brain.*

*Highlights of this  
edition include  
over 6,800 images*

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*of remarkable  
quality, more color  
images, and new  
information using  
advanced  
techniques,  
including perfusion  
and diffusion MRI  
and functional  
MRI. A companion  
Website will offer  
the fully  
searchable text  
and an image*

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bank.

*Passenger  
screening at  
commercial  
airports in the  
United States has  
gone through  
significant changes  
since the events of  
September 11,  
2001. In response  
to increased  
concern over  
terrorist attacks on*

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*aircrafts, the  
Transportation  
Security*

*Administration  
(TSA) has deployed  
security systems of  
advanced imaging  
technology (AIT) to  
screen passengers  
at airports. To date  
(December 2014),  
TSA has deployed  
AITs in U.S.*

*airports of two*



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*different technologies that use different types of radiation to detect threats: millimeter wave and X-ray backscatter AIT systems. X-ray backscatter AITs were deployed in U.S. airports in 2008 and subsequently*

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*removed from all  
airports by June  
2013 due to  
privacy concerns.  
TSA is looking to  
deploy a second-  
generation X-ray  
backscatter AIT  
equipped with  
privacy software to  
eliminate  
production of an  
image of the  
person being*

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*screened in order to alleviate these concerns. This report reviews previous studies as well as current processes used by the Department of Homeland Security and equipment manufacturers to estimate radiation exposures resulting from*

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*backscatter X-ray  
advanced imaging  
technology system  
use in screening  
air travelers.*

*Airport Passenger  
Screening Using  
Backscatter X-Ray  
Machines*

*examines whether  
exposures comply  
with applicable  
health and safety  
standards for*

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*public and occupational exposures to ionizing radiation and whether system design, operating procedures, and maintenance procedures are appropriate to prevent over exposures of travelers and*

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*operators to ionizing radiation. This study aims to address concerns about exposure to radiation from X-ray backscatter AITs raised by Congress, individuals within the scientific community, and others.*

*Expand your*

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*understanding of  
the physics and  
practical clinical  
applications of  
advanced radiation  
therapy  
technologies with  
Khan's The Physics  
of Radiation  
Therapy, 5th  
edition, the book  
that set the  
standard in the  
field. This classic*

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*full-color text helps  
the entire radiation  
therapy  
team—radiation  
oncologists,  
medical physicists,  
dosimetrists, and  
radiation  
therapists—develo  
p a thorough  
understanding of  
3D conformal  
radiotherapy (3D-  
CRT), stereotactic*



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*radiosurgery  
(SRS), high dose-  
rate remote  
afterloaders  
(HDR), intensity  
modulated  
radiation therapy  
(IMRT), image-  
guided radiation  
therapy (IGRT),  
Volumetric  
Modulated Arc  
Therapy (VMAT),  
and proton beam*

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*therapy, as well as the physical concepts underlying treatment planning, treatment delivery, and dosimetry. In preparing this new Fifth Edition, Dr. Kahn and new co-author Dr. John Gibbons made chapter-by-chapter*

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*revisions in the light of the latest developments in the field, adding new discussions, a new chapter, and new color illustrations throughout. Now even more precise and relevant, this edition is ideal as a reference book for practitioners, a*

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*textbook for students, and a constant companion for those preparing for their board exams. Features Stay on top of the latest advances in the field with new sections and/or discussions of Image Guided Radiation Therapy*

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(IGRT), Volumetric  
Modulated Arc  
Therapy (VMAT),  
and the Failure  
Mode Event  
Analysis (FMEA)  
approach to quality  
assurance. Deepen  
your knowledge of  
Stereotactic Body  
Radiotherapy  
(SBRT) through a  
completely new  
chapter that covers

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*SBRT in greater detail. Expand your visual understanding with new full color illustrations that reflect current practice and depict new procedures. Access the authoritative information you need fast through the new*

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companion website  
which features  
fully searchable  
text and an image  
bank for greater  
convenience in  
studying and  
teaching. This is  
the tablet version  
which does not  
include access to  
the supplemental  
content mentioned  
in the text.

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*Radiography and  
Radiology for  
Dental Care  
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The Physics of  
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Through Images  
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A Handbook for*



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those students who find physics a difficult subject to grasp. The fourth edition builds on the major revisions introduced in the third edition. The content has been updated to reflect recent advances in imaging technology. The chapter on Radiation Safety has been completely

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topics, recent  
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concepts. The  
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the previous  
gamuts, an entire  
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updated and revised  
new edition of  
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Physics contains  
comprehensive,  
balanced coverage  
of the fundamental

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radiation physics principles and its clinical applications. Since publication of the ground-breaking first edition in the 1970s, high-energy x-ray and electron beams have increasingly become the preferred approach to the radiation treatment

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of many cancers.

Obviously, too, the use of computers has become pervasive in radiation therapy. Imaging techniques and computers are now used routinely in treatment planning, and sophisticated methods are

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available for  
overlaying  
anatomical images  
with computer  
generated  
multidimensional  
treatment plans.  
Treatment  
procedures such as  
conformal and  
intensity-modulated  
radiation therapy,  
high dose-rate

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brachytherapy, and image-guided and image-guided and adaptive radiation therapy have become standard operating procedures in radiation therapy clinics around the world. Calibration protocols have been extensively revised,

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and quality assurance in radiation therapy has become a subject in itself. These procedures, and others that represent state-of-the-art radiation therapy including quality engineering, are discussed at length in this new



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edition. The 4th edition has an increased number of chapters (20 compared to 16) and includes new topics of interest to the practicing radiation oncologist and medical physicist:- The chapter on diagnostic imaging

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has been expanded to include molecular imaging.- A new chapter has been added on proton radiotherapy.- A new chapter has been added on radiation oncology informatics.- A new chapter has been added on quality and safety

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engineering. - A new chapter on dynamic delivery techniques, explaining the standard (e.g., IMRT) and new treatment techniques (e.g., VMAT). - The treatment planning and brachytherapy chapters omit a

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detailed explanation of historical techniques that no one uses clinically any longer, in favor of including a new focus on modern computer-based techniques in widespread clinical use. -  
The Problem sections in each chapter have been

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expanded to include  
designated "easy"  
question designed  
to give a broad  
understanding of a  
topic, and "hard"  
questions that would  
be designed to help  
the student  
understand the  
details of a topic.  
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1939, Clark's

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Positioning in Radiography is the preeminent text on positioning technique for diagnostic radiographers. Whilst retaining the clear and easy-to-follow structure of the previous edition, the thirteenth edition includes a number

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of changes and innovations in radiographic technique. The text has been extensively updated  
Core Radiology  
Solutions to  
Selected Problems  
from the Physics of  
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Physics

Magnetic

Resonance Imaging  
of the Brain and  
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ed Christensen's  
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Diagnostic Radio  
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*This publication  
is aimed at  
students and  
teachers  
involved in  
programmes that*

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*train medical  
physicists for  
work in  
diagnostic  
radiology. It  
provides, in the  
form of a  
syllabus, a  
comprehensive  
overview of the  
basic medical  
physics  
knowledge  
required for the*

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modern  
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and is the  
foundation for  
academic and  
clinical courses  
in both  
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in radiotherapy.  
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continues to  
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clear, easy-to-  
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aspects of  
dental  
radiography  
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tailored to the  
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important  
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renders it  
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clinical,  
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Radiologist is  
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studying or  
practicing  
diagnostic  
radiology, nuclear  
medicine and  
radiation  
oncology; the  
other for those  
engaged in the*

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*study or  
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practice of  
radiation  
oncology--a new  
chapter, on  
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terrorism, is  
specifically for  
those in the  
radiation  
sciences who  
would manage  
exposed*

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the event of a  
terrorist event.  
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represent a  
general  
introduction to  
radiation  
biology and a  
complete, self-  
contained course  
especially for  
residents in*

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*diagnostic radiology and nuclear medicine that follows the Syllabus in Radiation Biology of the RSNA. The 11 chapters in Section II address more in-depth topics in radiation oncology, such*

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amount  
proportional to  
the incident X-  
ray intensity.  
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well the  
fundamental  
aspects of the  
physical  
principles of  
radiotherapy, in**

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**which most attention is being given to gamma- and X-rays. The final chapter deals with the provision of adequate barriers and protective devices to guarantee the**



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therapy (IMRT)  
has become a  
routine method  
of radiation**

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delivery, digital  
imaging has  
replaced film-  
screen imaging  
for localization  
and  
verification,  
image-guided  
radiation  
therapy (IGRT)  
is frequently  
used, in many**

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**centers proton  
therapy has  
become a viable  
mode of  
radiation  
therapy, new  
approaches  
have been  
introduced to  
radiation  
therapy quality  
assurance and  
safety that**

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process analysis  
rather than  
specific  
performance  
testing, and the  
explosion in  
patient-and  
machine-  
related data has  
necessitated an  
increased  
awareness of**

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chapter  
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med et overblik  
over elektricitet  
og magnetisme,  
herefter gives**

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**en dybtgående  
forklaring på  
hvordan MRI  
fungerer og her  
diskuteres de  
seneste  
metoder i  
radiografisk  
billedtagning, p  
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detailed answer  
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increases coverage  
of radiotherapy  
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revised to include  
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such as the  
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(solid-state  
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a practical guide to  
solving problems  
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**found at the end of each chapter in the text have been selected with reasonable solutions provided. Solutions include, where appropriate, discussion of assumptions that may have to be made, and where the relevant formulae and data**

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are to be found.

**Explanations of the reasoning used in arriving at the solutions are given as are comments that are intended to show the important aspects of each problem.**

**Diagnostic  
Radiology Physics  
Farr's Physics for  
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**Hendee's Radiation  
Therapy Physics**

This publication is aimed at students and teachers involved in teaching programmes in field of medical radiation physics, and it covers the basic medical physics knowledge required



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in the form of a syllabus for modern radiation oncology. The information will be useful to those preparing for professional certification exams in radiation oncology, medical physics, dosimetry or radiotherapy

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