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**Essentials
Of
Radiation
Biology
And
Protection
Discount
Textbooks**

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Radiation Biology
And Protection
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***Lippincott
Williams &
Wilkins is proud
to introduce
Essentials of
Radiologic
Science, the
nucleus of
excellence for
your radiologic
technology
curriculum! An***

Online Library
Essentials Of
Radiation Biology

***exciting new
first edition,
this core,
comprehensive
textbook for
radiologic
technology
students focuses
on the crucial
components and
minimizing
extraneous***

Online Library
Essentials Of
Radiation Biology

***content. This
text will help
prepare
students for
success on the
American
Registry of
Radiologic
Technologists
Examination in
Radiography
and beyond into***

Online Library
Essentials Of
Radiation Biology
And Protection

practice. Topics covered include radiation protection, equipment operation and quality control, image production and evaluation, and patient care.

This is a key and

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***crucial resource
for radiologic
technology
programs,
focusing on the
most relevant
information and
offering tools
and resources to
students of
multiple
learning types.***

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And Protection
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These include a full suite of ancillary products, a variety of pedagogical features embedded in the text, and a strong focus on the practical application of

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***the concepts
presented.***

***This book is a
concise and well-
illustrated
review of the
physics and
biology of
radiation
therapy
intended for
radiation***

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Essentials Of
Radiation Biology

**oncology
residents,
radiation
therapists,
dosimetrists,
and physicists.**

**It presents
topics that are
included on the
Radiation
Therapy Physics
and Biology**

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***examinations
and is designed
with the intent
of presenting
information in
an easily
digestible
format with
maximum
retention in
mind. The
inclusion of***

Online Library
Essentials Of
Radiation Biology

***mnemonics,
rules of thumb,
and reader-
friendly***

***illustrations
throughout the
book help to
make difficult
concepts easier
to grasp. Basic
Radiotherapy
Physics and***

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***Biology is a
valuable
reference for
students and
prospective
students in
every discipline
of radiation
oncology.***

***Easy-to-read and
engaging, this
text offers a***

Online Library
Essentials Of
Radiation Biology

***succinct
overview of
radiation
biology and
protection
concepts. It
teaches both
why and how to
protect yourself
and patients
from ionizing
radiation.***

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Radiation Biology

***Emphasis is
placed on
integrating the
theory of
radiation
protection as
seen in
radiobiology
with radiation
protection as it
should be
practiced in the***

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***clinical
education
setting. The text
discusses cell
structure, the
direct and
indirect effects
of radiation at
the cellular
level, biological
effects of
radiation***

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Radiation Biology
And Protection
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Textbooks

***exposure, and
protection
practices for
both patients
and personnel.
Current
regulations and
recommendatio
ns are in
compliance with
the educational
requirements***

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***established by
the American
Society of
Radiologic
Technologists
(ASRT).***

***Important
Notice: Media
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referenced
within the
product***

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Book Again!
Virtually all of
the testable
terms, concepts,
persons, places,***

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Discount
Textbooks

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the textbook are
included.***

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the FACTS101
studyguides give
all of the
outlines,
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notes, and
quizzes for your
textbook with***

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practice tests.***

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Textbook
Specific.***

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***.
A Handbook for
Teachers and
Students***

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9781428312173
***Indications,
Techniques, and
Results
Radiologic
Physics
Radiation
Oncology***

An excellent
introduction to the basic
concepts of nuclear
medicine physics This

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Radiation Biology

Third Edition of
Essentials of Nuclear
Medicine Physics and
Instrumentation expands
the finely developed
illustrated review and
introductory guide to
nuclear medicine
physics and
instrumentation. Along
with simple, progressive,
highly illustrated topics,
the authors present
nuclear medicine-related

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physics and engineering concepts clearly and concisely. Included in the text are introductory chapters on relevant atomic structure, methods of radionuclide production, and the interaction of radiation with matter. Further, the text discusses the basic function of the components of scintillation and non-

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scintillation detector systems. An information technology section discusses PACs and DICOM. There is extensive coverage of quality control procedures, followed by updated chapters on radiation safety practices, radiation biology, and management of radiation accident

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Textbook

victims. Clear and concise, this new edition of Essentials of Nuclear Medicine Physics and Instrumentation offers readers: Four new chapters Updated coverage of CT and hybrid scanning systems: PET/CT and SPECT/CT Fresh discussions of the latest technology based on solid state detectors and new scanner designs

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optimized for dedicated
cardiac imaging New
coverage of PACs and
DICOM systems
Expanded coverage of
image reconstruction
and processing
techniques New material
on methods of image
display Logically
structured and clearly
written, this is the book
of choice for anyone
entering the field of

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nuclear medicine, including nuclear medicine residents and fellows, cardiac nuclear medicine fellows, and nuclear medicine technology students. It is also a handy quick-reference guide for those already working in the field of nuclear physics.

Updated and expanded, this Second Edition of

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And Protection

Essentials of Clinical
Radiation Oncology
continues to provide a
succinct and effective
review of the most
important studies in the
field. Organized by
disease topic and
grouped by body part,
each chapter employs
structured sections for
targeted information
retrieval and retention.
Chapters begin with a

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And Protection

"Quick Hit" overview of
each disease

summarizing the most
significant paradigms
before moving into
dedicated summaries on
epidemiology, risk
factors, anatomy,
pathology, genetics,
screening, clinical
presentation, workup,
prognostic factors,
staging, treatment
paradigm, and medical

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management. An evidence-based question-and-answer section concludes each chapter, which pairs commonly encountered clinical questions with answers connecting historical context and pertinent clinical studies to better inform decision-making and treatment planning. Providing the latest treatment paradigms and

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guidelines, this comprehensive second edition now outlines the evidence and must-know considerations for using radiation therapy with immunotherapy, the strategies for metastasis-directed therapy for oligometastatic disease, and much more. Written for the practicing radiation oncologist, related practitioner, and

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radiation oncology
resident entering the
field, this "one-stop"

resource is the go-to
reference for everyday
practice. Key Features:
Structured sections offer
high-yield information
for targeted review Cites
need-to-know clinical
studies and treatment
guidelines in evidence-
based question-and-
answer format Each

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chapter has been reviewed and updated to include the most recent and relevant studies New chapters on spine tumors, thyroid cancer, sinonasal tumors, cholangiocarcinoma, renal cell carcinoma, multiple myeloma and plasmacytoma, miscellaneous pediatric tumors, and treatment of oligometastatic disease

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from underlying cancers
Designed for quick
reference with

comprehensive tables on
treatment options and
patient selection,
workup, and prognostic
factors by disease site

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access for use on most
mobile devices or
computers

Radiochemistry or
Nuclear Chemistry is the

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study of radiation from an atomic or molecular perspective, including elemental transformation and reaction effects, as well as physical, health and medical properties. This revised edition of one of the earliest and best known books on the subject has been updated to bring into teaching the latest

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developments in research and the current hot topics in the field. In order to further enhance the functionality of this text, the authors have added numerous teaching aids that include an interactive website that features testing, examples in MathCAD with variable quantities and options, hotlinks to relevant text

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sections from the book,
and online self-grading
texts. As in the previous
edition, readers can
closely follow the
structure of the chapters
from the broad
introduction through the
more in depth
descriptions of
radiochemistry then
nuclear radiation
chemistry and finally the
guide to nuclear energy

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(including energy production, fuel cycle, and waste management).

New edition of a well-known, respected text in the specialized field of nuclear/radiochemistry
Includes an interactive website with testing and evaluation modules based on exercises in the book Suitable for both radiochemistry and nuclear chemistry

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courses

Essentials of Body MRI extensively covers the field, offering clear and detailed guidance on MRI as an invaluable tool for the primary diagnosis and problem solving of diseases of the body, including the abdomen, liver, pancreas, pelvis, heart, urinary tract, and great vessels. The beginning

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chapters focus on the physics, pulse sequences, and other practical considerations related to body MR imaging, explained in an easy to understand way, to help the reader fully comprehend the imaging appearance of clinical disease. The remaining chapters discuss clinical applications, with topics spanning from the

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normal anatomic structures and diagnosis of abdominal, pelvic, cardiac, and vascular diseases to the modality's role as a tool for solving diagnostic problems. The key points of each chapter are boxed as Essentials to Remember for rapid review and learning.

Written in clear, accessible text, and

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And Protection

featuring 887 figures
and numerous tables,

Essentials of Body MRI

is a resource that

radiology residents,

fellows, and anyone else

who wants to learn about

Body MRI, will turn to

again and again.

Essentials of Clinical

Radiation Oncology

Physical, Biological, and

Clinical Aspects

A Handbook for

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And Protection
MARSSIM Users,
Second Edition

Acp Acp Essentials of
Radiation Biology and
Protection

Protecting the Soldier
Before, During, and
After

**In 1996, NATO
issued guidance
for the
exposure of
military**

**personnel to
radiation doses
different from
occupational
dose levels, but
not high
enough to
cause acute
health effects-
and in doing so
set policy in a
new arena.
Scientific and**

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Radiation Biology

**technological
developments
now permit
small groups or
individuals to
use, or threaten
to use,
destructive
devices
(nuclear,
biological,
chemical, and
cyber-based**

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**weaponry,
among others)
targeted
anywhere in the
world. Political
developments,
such as the loss
of political
balance once
afforded by
competing
superpowers,
have increased**

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**the focus on
regional and
subregional
disputes. What
doctrine should
guide
decisionmaking
regarding the
potential
exposure of
troops to
radiation in this
changed**

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And Protection

**theater of
military
operations? In
1995, the Office
of the U.S.**

**Army Surgeon
General asked
the Medical
Follow-up
Agency of the
Institute of
Medicine to
provide advice.**

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**This report is
the final
product of the
Committee on
Battlefield
Radiation
Exposure
Criteria
convened for
that purpose. In
its 1997 interim
report,
Evaluation of**

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**Radiation
Exposure
Guidance for
Military**

**Operations, the
committee
addressed the
technical
aspects of the
NATO directive.
In this final
report, the
committee**

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**reiterates that
discussion and
places it in an
ethical context.
Human activity
during the
Anthropocene
has
transformed
landscapes
worldwide on a
scale that rivals
or exceeds**

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**even the
largest of
natural forces.**

**Landscape
ecology has
emerged as a
science to
investigate the
interactions
between
natural and
anthropogenic
landscapes and**

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**ecological
processes
across a wide
range of scales
and systems:
from the effects
of habitat or
resource
distributions on
the individual
movements,
gene flow, and
population**

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**dynamics of
plants and
animals; to the
human
alteration of
landscapes
affecting the
structure of
biological
communities
and the
functioning of
entire**

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**ecosystems; to
the sustainable
management of
natural**

**resources and
the ecosystem
goods and
services upon
which society
depends. This
novel and
comprehensive
text presents**

Online Library
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**the principles,
theory,
methods, and
applications of
landscape
ecology in an
engaging and
accessible
format that is
supplemented
by numerous
examples and
case studies**

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**from a variety
of systems,
including
freshwater and
marine**

"scapes".

Objectives,

Lecture

Outlines, Case

Studies, Review

Questions,

Section Exams,

Exam Answer

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Radiation Biology
And Protection
**Keys, Internet
Resources**

**This concise but
comprehensive
textbook sets
out the
essentials of
the science and
clinical
application of
radiobiology for
those seeking
accreditation in**

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**radiation
oncology,
clinical
radiation
physics and
radiation
technology.
Fully revised
and updated to
keep abreast of
current
developments
in radiation**

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**biology and
radiation
oncology, the
fourth edition
continues to
present in an
interesting way
the biological
basis of
radiation
therapy,
discussing the
basic principles**

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**and significant
developments
that underlie
the latest
attempts to
improve the rad
iotherapeutic
management of
cancer. New
topics for the
fourth edition
include
chapters on the**

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**mechanisms of
cell death,
biological
response
modifiers, and
biological
image guided
radiotherapy,
with major
revisions to
sections on the
molecular basis
of the radiation**

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**response,
tumour hypoxia**

**and the dose-
rate effect. A**

**variety of new
authors have
contributed to**

**this revision,
who, together**

**with the new
Editorial team,**

**have used their
significant**

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**international
teaching
experience to
ensure the
content
remains clear
and
comprehensive,
and as valuable
to the trainee
as it is to the
established
radiation**

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oncologist.

**With the fourth
edition we will**

**see the most
radical change**

**so far - as
Professor**

**Gordon Steel
has retired as**

**Editor and has
been replaced**

**by Bert van der
Kogel, the**

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**current current
course director
for the above-
mentioned
course, plus
Michael Joiner,
who is the head
of the Radiation
Biology
Program at the
Wayne State
University and
is the Associate**

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**Editor of the
International
Journal of
Radiation
Biology.**

**Outlines and
Highlights for
Essentials of
Radiation
Biology and
Protection by
Steve Forshier,
Isbn**

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Radiation Biology
**Basic
Radiotherapy
Physics and
Biology**

**Essentials of
Dental
Radiography for
Dental
Assistants and
Hygienists
Basic Clinical
Radiobiology**

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Fourth Edition

In this Handbook, a team of leading experts provide a comprehensive and up-to-date overview of the ever-changing field of radiation oncology. The publication is divided into three volumes, the first

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of which covers
basics such as
radiotherapy
techniques,
treatment
documentation,
clinical
radiobiology, and
patient
management. In
the second
volume, all
aspects of clinical

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**radiation therapy
are discussed in
depth for the full
range of tumor
types. In order to
ensure that the
reader has a full
understanding of
cancer
management in
each scenario,
information is also
provided on**

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**diagnosis and
classification,
general
management
principles, the role
of surgical and
systemic therapy,
and prognosis.
The third volume
focuses on
medical physics,
covering the
mathematical and**

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**computer science
background,
biophysics,
radiation physics,
instrumentation,
tracer kinetic
modeling,
pharmacokinetics
and pharmacodyn
amics, radiation
sources and
detectors,
biomedical**

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**engineering,
imaging
techniques,
radiation treatment
planning, and
quality assurance.**

**This book will be
invaluable for all
radiation
oncologists. It is
published as part
of the**

SpringerReference

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**program, which
delivers access to
living editions
constantly**

**updated through a
dynamic peer-
review publishing
process.**

**Essentials of
Clinical Radiation
Oncology is a
comprehensive,
user-friendly**

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clinical review that summarizes up-to-date cancer care in an easy-to-read format. Each chapter is structured for straightforward navigability and information retention beginning with a “quick-hit”

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**summary that
contains an
overview of each
disease, its natural
history, and
general treatment
options. Following
each "quick-hit"
are high-yield
summaries
covering
epidemiology, risk
factors, anatomy,**

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Radiation Biology

**pathology,
genetics,
screening, clinical
presentation,
workup,
prognostic factors,
staging, treatment
paradigms, and
medical
management for
each malignancy.
Each treatment
paradigm section**

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Radiation Biology

**describes the
current standard
of care for
radiation therapy
including
indications, dose
constraints, and
side effects.**

**Chapters conclude
with an evidence-
based question
and answer
section which**

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Radiation Biology

**summarizes
practice-changing
data to answer key
information**

**associated with
radiation treatment
outcomes. Flow
diagrams and
tables consolidate
information
throughout the
book that all
radiation**

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**oncologists and
related
practitioners will
find extremely
useful when
approaching
treatment planning
and clinical care.**

**Essentials of
Clinical Radiation
Oncology has
been designed to
replicate a "house**

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**manual" created
and used by
residents in
training and is a
"one-stop"
resource for
practicing
radiation
oncologists,
related
practitioners, and
radiation oncology
residents entering**

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And Protection

**the field. Key
Features: Offers
digestible
information as a
learning guide for
general practice
Examines
essential clinical
questions which
are answered with
evidence-based
data from
important clinical**

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Radiation Biology
And Protection

**studies Places
clinical trials and
data into historical
context and points
out relevance in
current practice
Provides quick
reference tables
on treatment
options and
patient selection,
workup, and
prognostic factors**

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**by disease site
Essentials of
Radiation, Biology
and**

**Protection Cengage
e Learning**

**This renowned
work is derived
from the authors'
acclaimed national
review course
(“Physics of
Medical Imaging”)**

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**at the University of
California-Davis
for radiology
residents. The text
is a guide to the
fundamental
principles of
medical imaging
physics, radiation
protection and
radiation biology,
with complex
topics presented**

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**in the clear and
concise manner
and style for which
these authors are
known. Coverage
includes the
production,
characteristics and
interactions of
ionizing radiation
used in medical
imaging and the
imaging modalities**

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Radiation Biology

in which they are used, including radiography, mammography, fluoroscopy, computed tomography and nuclear medicine. Special attention is paid to optimizing patient dose in each of these modalities.

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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.

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The basic science important to nuclear imaging, including the nature and production of radioactivity, internal dosimetry and radiation detection and measurement, are presented clearly and concisely.

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**Current concepts
in the fields of
radiation biology
and radiation
protection relevant
to medical
imaging, and a
number of helpful
appendices
complete this
comprehensive
textbook. The text
is enhanced by**

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**numerous full
color charts,
tables, images and
superb**

**illustrations that
reinforce central
concepts. The
book is ideal for
medical imaging
professionals, and
teachers and
students in
medical physics**

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**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.**

Selman's The

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**Fundamentals of
Imaging Physics
and Radiobiology
Workbook to
Accompany
Essentials of
Radiation Biology
and Protection
Radiobiology for
the Radiologist
Monte Carlo
Techniques in
Radiation Therapy**

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**Essentials of
Nuclear Medicine
Physics and
Instrumentation**

*Essential Nuclear
Medicine Physics
provides an excellent
introduction to the
basic concepts of the
daunting area of
nuclear physics.
Logically structured
and clearly written, this*

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Radiation Biology
And Protection
*is the book of choice for
anyone entering the
field of nuclear
medicine, including
nuclear medicine
residents and fellows,
cardiac nuclear
medicine fellows and
nuclear medicine
technology students.
The text is also a handy
quick-reference guide
for those already
working in the field of*

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nuclear physics. This new edition provides a basic introduction to nuclear physics and the interactions of radiation and matter. The authors also provide comprehensive coverage of instrumentation and imaging, with separate chapters devoted to SPECT, PET, and PET/CT. Discussion of

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Discovery
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*radiation biology,
radiation safety and
care of victims of
radiation accidents
completes the text, with
an appendix containing
the latest NRC rules
and regulations.*

*Essential Nuclear
Medicine Physics
presents difficult
concepts clearly and
concisely, defines all
terminology for the*

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reader, and facilitates learning through extensive illustrations and self-assessment questions.

This is a basic teaching book for radiation oncologists, radiation physicists, and radiobiologists, setting out concisely the biological basis of radiation therapy. Early chapters deal with

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*essential areas of
science, including cell
proliferation in*

*tumours and normal
tissues, principles of
radiation cell killing,
theoretical and*

*modelling approaches
and molecular aspects
of radiobiology.*

*Subsequent chapters
deal with the
applications of*

radiobiology to clinical

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radiotherapy. The principles of fractionation are described in detail, leading to the rationale of current approaches to the improvement of radiotherapy schedules. Also discussed are efforts to beat hypoxia in tumours, brachytherapy, the principles and use of particle beams, the

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*combination of
radiotherapy and
chemotherapy,*

*hyperthermia, targeted
radiotherapy, and
current efforts to
individualize treatment
with radiation therapy.*

*This second edition
uses the same clear and
concise style as the
first, maintaining a
high ratio of charts to
text, for the benefit of*

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those who have a visual memory. The text has been fully updated and expanded to include recent advances in molecular growth which will be of particular importance to trainees and professionals alike. The charts of this second edition have been substantially revised and each chapter

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concludes with a series of Key Points. There are frequent cross-references between chapters and a glossary of scientific terms is provided.

Fundamentals of Radiation Oncology: Physical, Biological, and Clinical Aspects, Third Edition continues to provide current, concise, and a readily

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*available source of
clinical information for
busy practicing
radiation oncologists.
The book consists of 26
chapters, divided into
four parts: Part I
describes the basic
science of radiation
oncology, with
discussions of radiation
physics, radiation
protection, and
radiation biology, as*

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*well as molecular
biology. Part II*

*describes techniques
and modalities of
radiation oncology
including
brachytherapy,
intensity-modulated
radiation therapy
(IMRT), stereotactic
radiotherapy (SRS),
stereotactic body
radiation therapy
(SBRT), and proton*

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therapy. Significant recent advances made in the areas of immunotherapy and combined modality therapy; as such, these chapters have also been added to this new edition. Part III describes the clinical science of radiation oncology including risk factors,

symptoms/signs, and

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*investigations needed
for the cancer diagnosis
and up-to-date
treatment
recommendations in
accordance with the
new AJCC staging
system. In addition,
radiation treatment
techniques, with an
emphasis on IMRT,
have been expanded to
all the chapters. Also
included in this version*

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*of the book is a chapter
on benign diseases.*

*Updated annotated
bibliographies of latest
landmark studies
providing evidence-
based rationale for the
recommended
treatments are
presented at the end of
each chapter. Part IV
describes palliative
radiation treatments to
improve the quality of*

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*life for cancer patients
and the management of
side effects from
radiation treatment.*

*This book is a must-
have for all radiation
oncology residents,
radiation oncologists
and all professionals
engaged in the care of
cancer patients. New
chapters on
brachytherapy,
IMRT/IGRT, SRS,*

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*SBRT, proton therapy,
immunotherapy,
combined modality
therapy, and benign
diseases Eighth edition
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system IMRT
techniques for all
common cancer sites,
along with up-to-date
treatment*

*recommendations
Relevant, landmark
studies that provide*

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*evidence-based
rationale for
recommended
treatments*
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on how well firms
can leverage,
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engage and
motivate the
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capabilities of their
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Forshier, Steve
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29 to 33 are all new. The overall style of Doctor Selman is still present, but, with any revision, the style of the present author is also present. In essence, the author's *raison d'être* in revising

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