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Nuclear Physics
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Applications John
Lilley

Nuclear Physics Principle s And App lications John Lilley

The main purpose

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of this book is to give a concise account of the fundamentals of the physics of the nuclei and particles and applications of nuclear energy. Its coverage extends the conventional aspects of the

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subject as it has become very evident in recent years that much of the great body of knowledge of nuclei, acquired several decades ago, is highly relevant to other field such as solid state, modern

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spectroscopy,
chemistry,
biological / medical
physics and
technology of
power production.
Essential Nuclear
Medicine Physics
provides an
excellent
introduction to the
basic concepts of

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the daunting area
of nuclear physics.
Logically
structured and
clearly written, this
is the book of
choice for anyone
entering the field
of nuclear
medicine, including
nuclear medicine
residents and

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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 nuclear
physics. This new

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edition provides a basic introduction to nuclear physics and the interactions of radiation and matter. The authors also provide comprehensive coverage of instrumentation

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and imaging, with
separate chapters
devoted to
SPECT, PET, and
PET/CT.

Discussion of
radiation biology,
radiation safety
and care of victims
of radiation
accidents
completes the text,

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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 reader, and

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facilitates learning through extensive illustrations and self-assessment questions.

"This book is a revised and updated version of the most comprehensive text on nuclear physics, first

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published in 1995.

It maintains the original goal of providing a clear, logical, in-depth and unifying treatment of modern nuclear theory, ranging from the nonrelativistic many-body

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problem to the
standard model of
the strong,
electromagnetic,
and weak
interactions. In
addition, new
chapters on the
theoretical and
experimental
advances made in
nuclear physics in

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the past decade
have been
incorporated."

"This book is
designed to
provide graduate
students with a
basic
understanding of
modern nuclear
and hadronic
physics needed to

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explore the
frontiers of the
field. Researchers
will benefit from
the updates on
developments and
the bibliography."--
Jacket.

The Nobel
Prize-winning
physicist offers a
fascinating popular

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introduction to
nuclear physics
from early atomic
theory to its
transformative
applications.

Theoretical
physicist Werner
Heisenberg is
famous for
developing the
uncertainty

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principle, which
bears his name,
and for his
pioneering work in
quantum
mechanics. A
central figure in
the development
of the atomic
bomb and a close
colleague of Albert
Einstein,

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Heisenberg wrote
Nuclear Physics
“for readers who,
while interested in
natural sciences,
have no previous
training in
theoretical
physics.” Compiled
from a series of his
lectures on the
subject,

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Heisenberg begins with a short history of atomic physics before delving into the nature of nuclear forces and reactions, the tools of nuclear physics, and its world-changing technical and practical applications.

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Nuclear Physics is
an ideal book for
general readers
interested in
learning about
some of the most
significant
scientific
breakthroughs of
the twentieth
century.

Exploring the

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Heart of Matter
Applications John
Group Theory in
Lilley
Subnuclear
Physics
Nuclear Reactions
for Astrophysics
Theoretical
Nuclear and
Subnuclear
Physics
Principles of
Physics

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**This book is a
useful and
accessible
introduction to
symmetry
principles in
particle physics.
Concepts of group
theory are clearly
explained and their
applications to
subnuclear physics
brought up to date.
The book begins**

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Applications, John
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**with introductions
to both the types of
symmetries known
in physics and to
group theory and
representation
theory. Successive
chapters deal with
the symmetric
groups and their
Young diagrams,
braid groups, Lie
groups and
algebras, Cartan's**

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**classification of
semi-simple
groups, and the Lie
groups most used
in physics are
treated in detail.
Gauge groups are
discussed, and
applications to
elementary particle
physics and
multiquark
systems introduced
throughout the**

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**book where
appropriate. Many
worked examples
are also included.
There is a growing
interest in the
quark structure of
hadrons and in
theories of particle
interactions based
on the principle of
gauge symmetries.
Students and
researchers on**

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Lilly
**theoretical physics
will make great
strides in their
work with the ideas
and applications
found here.**

**Physics of Nuclear
Reactors presents
a comprehensive
analysis of nuclear
reactor physics.**

**Editors P.
Mohanakrishnan,
Om Pal Singh, and**

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Kannan
Umasankari and a
team of expert
contributors
combine their
knowledge to guide
the reader through
a toolkit of
methods for
solving transport
equations,
understanding the
physics of reactor
design principles,

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**and developing
reactor safety
strategies. The
inclusion of
experimental and
operational reactor
physics makes this
a unique reference
for those working
and researching
nuclear power and
the fuel cycle in
existing power
generation sites**

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**and experimental
facilities. The book
also includes
radiation physics,
shielding
techniques and an
analysis of shield
design, neutron
monitoring and
core operations.
Those involved in
the development
and operation of
nuclear reactors**

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Applications John
Allan
**and the fuel cycle
will gain a
thorough
understanding of
all elements of
nuclear reactor
physics, thus
enabling them to
apply the analysis
and solution
methods provided
to their own work
and research. This
book looks to**

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**future reactors in
development and
analyzes their
status and
challenges before
providing possible
worked-through
solutions. Cover
image: Kaiga
Atomic Power
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Karnataka, India.
In 2018, Unit 1 of
the Kaiga Station**

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**surpassed the
world record of
continuous
operation, at 962
days. Image
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India. Includes
methods for
solving neutron
transport
problems, nuclear
cross-section data
and solutions of
transport theory**

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**Dedicates a
chapter to reactor
safety that covers
mitigation,
probabilistic safety
assessment and
uncertainty
analysis Covers
experimental and
operational physics
with details on
noise analysis and
failed fuel
detection**

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current,
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physics underlying
modern nuclear
medicine and
imaging using
radioactively**

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new full-color
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the latest
information on
instrumentation
and technology.
Stay current on
crucial
developments in
hybrid imaging**

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Killeen
**(PET/CT and
SPECT/CT), and
small animal
imaging, and
benefit from the
new section on
tracer kinetic
modeling in
neuroreceptor
imaging. What's
more, you can
reinforce your
understanding with
graphical**

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**them accessible.
Discover the
technologies used
in state-of-the-art
nuclear medicine
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Fully grasp the
process of
emission computed
tomography with
advanced
mathematical
concepts presented
in the appendices.**

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Utilize the extensive data in the day-to-day practice of nuclear medicine practice and research. Tap into the expertise of Dr. Simon Cherry, who contributes his cutting-edge knowledge in nuclear medicine instrumentation.

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Stay current on the latest

developments in nuclear medicine technology and methods New sections to learn about hybrid imaging (PET/CT and SPECT/CT) and small animal imaging. View graphical animations online

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perfect reference

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**or textbook to
comprehensively
review physics
principles in
nuclear medicine.
Physics of Nuclear
Radiations:
Concepts,
Techniques and
Applications makes
the physics of
nuclear radiations
accessible to
students with a**

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**basic background
in physics and
mathematics.**

**Rather than
convince students
one way or the
other about the
hazards of nuclear
radiations, the text
empowers them
with tools to
calculate and
assess nuclear
radiations and**

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their impact. It discusses the meaning behind mathematical formulae as well as the areas in which the equations can be applied. After reviewing the physics preliminaries, the author addresses the growth and decay of nuclear

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**radiations, the
stability of nuclei
or particles against
radioactive
transformations,
and the behavior of
heavy charged
particles,
electrons, photons,
and neutrons. He
then presents the
nomenclature and
physics reasoning
of dosimetry,**

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Lilley
**covers typical
nuclear facilities
(such as medical x-
ray machines and
particle
accelerators), and
describes the
physics principles
of diverse
detectors. The
book also discusses
methods for
measuring energy
and time**

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spectroscopies
before concluding
with applications
in agriculture,
medicine, industry,
and art.

Finite-Temperature
Field Theory
Nuclear Cardiac
Imaging
The Physics of
Stars

For Scientists and

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Engineers
Applications John

An accessible
introduction to
nuclear and particle
physics with equal
coverage of both
topics, this text
covers all the
standard topics in
particle and nuclear
physics thoroughly
and provides a few
extras, including
chapters on

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experimental
Applications, John
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methods; applications
of nuclear physics
including fission,
fusion and biomedical
applications; and
unsolved problems
for the future. It
includes basic
concepts and theory
combined with
current and future
applications. An
excellent resource for

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physics and
astronomy
undergraduates in
higher-level courses,
this text also serves
well as a general
reference for
graduate studies.

Written by a
researcher and
teacher with
experience at top
institutes in the US
and Europe, this

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textbook provides
advanced

undergraduates
minoring in physics
with working
knowledge of the
principles of nuclear
physics. Simplifying
models and
approaches reveal the
essence of the
principles involved,
with the
mathematical and

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quantum mechanical
background
integrated in the text
where it is needed
and not relegated to
the appendices. The
practicality of the
book is enhanced by
numerous end-of-
chapter problems and
solutions available on
the Wiley homepage.

NUCLEAR PHYSICS:
PRINCIPLES AND

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APPLICATIONS John
Wiley & Sons John

This textbook
presents a basic
course in physics to
teach mechanics,
mechanical properties
of matter, thermal
properties of matter,
elementary
thermodynamics,
electrodynamics,
electricity,
magnetism, light and

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optics and sound. It includes simple mathematical approaches to each physical principle, and all examples and exercises are selected carefully to reinforce each chapter. In addition, answers to all exercises are included that should ultimately help solidify the concepts

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in the minds of the students and increase their confidence in the subject. Many boxed features are used to separate the examples from the text and to highlight some important physical outcomes and rules. The appendices are chosen in such a way that all basic simple

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conversion factors,
basic rules and
formulas, basic rules
of differentiation and
integration can be
viewed quickly,
helping student to
understand the
elementary
mathematical steps
used for solving the
examples and
exercises. Instructors
teaching form this

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textbook will be able to gain online access to the solutions manual which provides step-by-step solutions to all exercises contained in the book. The solutions manual also contains many tips, coloured illustrations, and explanations on how the solutions were derived.

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Physics
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Applications
An Introduction to
the Concepts,
Systems, and
Applications of
Nuclear Processes

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***Solid State
Nuclear Track
Detection:
Principles,
Methods and
Applications is
the second
book written
by the authors
after Nuclear
Tracks in***

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Principles and
Applications.** John
Lilley

**The book is
meant as an
introduction to
the subject
solid state of
nuclear track
detection. The
text covers
the**

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***interactions of
charged
particles with
matter; the
nature of the c
harged-
particle track;
the
methodology
and geometry
of track
etching;***

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***thermal fading
of latent
damage trails
on tracks; the
use of
dielectric
track
recorders in
particle
identification;
radiation
dossimetry;***

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***and solid state
nuclear track
detection instr
umentation.
The book also
covers fission
track dating,
and the
application of
track
detectors and
its future***

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direction. The selection is recommended for newcomers to the field of solid state nuclear track detection and its research, those who wish to acquire a basic

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***knowledge of
the techniques
of the
discipline, and
those who
wish to gain a
general view
of the present
status of the
subject.***

***The 2006
second edition***

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**of this book
develops the
basic**

**formalism and
theoretical
techniques for
studying
relativistic
quantum field
theory at high
temperature
and density.**

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***Specific
physical
theories
treated
include QED,
QCD,
electroweak
theory, and
effective
nuclear field
theories of
hadronic and***

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matter. Topics
include:
functional
integral
representation
of the
partition
function,
diagrammatic
expansions,
linear*

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theory,
screening and
plasma
oscillations,
spontaneous
symmetry
breaking,
Goldstone
theorem,
resummation
and hard**

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***thermal loops,
lattice gauge
theory, phase
transitions,
nucleation
theory, quark-
gluon plasma,
and color supe
rconductivity.
Applications to
astrophysics
and cosmology***

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***cover white
dwarf and
neutron stars,
neutrino
emissivity,
baryon
number
violation in
the early
universe, and
cosmological
phase***

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Principles And
transitions.
Applications, John
Lilley
**Applications to
relativistic nuc
leus-nucleus
collisions are
also included.
The book is
written for
theorists in
elementary
particle
physics,**

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***nuclear
physics,
astrophysics,
and
cosmology.
Problems are
given at the
end of each
chapter, and
numerous
references to
the literature***

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Principles And
are included.
Applications John
This book
Lilley
examines the
major
developments
in nuclear and
particle
physics that
have taken
place in the
past few years
and provides

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***an up-to-date
view of the
field in a
compact form.
The study of
nuclei is
placed in its
proper
relation with
the subject of
subatomic
particles.***

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***Relationships
with the
underlying
quark
substructure
of nucleons
and the
fundamental
interactions
between the
elementary
building***

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***blocks of
nuclei are
emphasized
providing an
outstanding
introduction to
the field. The
text offers a
concise
coverage of
nuclear and
particle***

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***physics in a
lucid yet
uncomplicated
manner. Each
chapter
contains a
wide range of
worked-out
problems. At
the end of
each chapter a
number of***

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**questions and
exercises are
provided so
that the book
may also be
useful for
upper level
courses.**

**Nuclear
properties,
decay,**

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structure and reactions are covered initially, followed by discussions of nuclear forces, B-decay, and elementary particles and their interactions.

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Nuclear physics is a field of physics that is concerned with the study of atomic nuclei, their constituents and interactions. The structure

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***and properties
of the nucleus
can be
understood
from the
classical and
quantum
mechanical
approaches of
liquid-drop
model and the
nuclear shell***

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Principles And
model
Applications John
respectively.
Lilley

**Current
research in
nuclear
physics
studies nuclei
under extreme
conditions,
such as under
high excitation
energy and**

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Lilley

***high spin.
Nuclei with
extreme neutr
on-to-proton
ratios can be
artificially
created, by
the processes
of nucleon
transfer
reactions or
induced fusion***

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reactions.
Applications John
Lilley

Some of the significant areas of study in nuclear physics are nuclear decay processes, nuclear fusion and nuclear fission.

Advances in

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*nuclear
physics have
transformed
the fields of
medicine,
warfare,
energy,
geology and
archaeology.
This book
elucidates the
advanced*

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***principles of
nuclear
physics and
their
applications in
a multidisciplinary
manner.
It strives to
provide a fair
idea about
this discipline
and to help***

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***develop a
better
understanding
of the latest
advances
within this
field. It
attempts to
assist those
with a goal of
delving into
the field of***

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**nuclear
physics.**

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Nuclear
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and**

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Nuclear
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date textbook on
nuclear physics .
. . most
welcome."***

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books on the
subject is its
presentation of
nuclear physics
as an integral
part of modern
physics. Placing
the discipline
within a broad
historical and
scientific context,***

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***it makes
important
connections to
other fields such
as elementary
particle physics
and astrophysics.
Now fully revised
and updated, this
Second Edition
explores the
changing
directions in***

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*nuclear physics,
Applications, John
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***emphasizing new
developments
and current
research-from
superdeformation
to quark-gluon
plasma. Author
Samuel S.M.
Wong preserves
those areas that
established the
First Edition as a***

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Lilley
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departments,
focusing on what
is exciting about
the discipline and
providing a
concise,
thorough, and
accessible
treatment of the
fundamental

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**aspects of
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properties. In this
new edition,
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chapter on heavy-
ion reactions-
from high-spin
states to quark-
gluon plasma ***

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chapter on**

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*nuclear
astrophysics* * John
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*Relates observed
nuclear
properties to the
underlying
nuclear
interaction and
the symmetry
principles
governing
subatomic
particles* *

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material and
appendices to
make the text
easier to use ***
**Lists Internet
links to essential
databases and
research projects**
*** Features end-of-
chapter exercises
using real-world
data.**

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Nuclear Physics,
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courses in
nuclear physics
at the senior
undergraduate or
first-year
graduate level. It
is also an
important
resource for**

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**scientists and
engineers
working with
nuclei, for
astrophysicists
and particle
physicists, and
for anyone
wishing to learn
more about
trends in the
field.**

Nuclear reactor

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***physics is the
core discipline of
nuclear
engineering.
Nuclear reactors
now account for a
significant
portion of the
electrical power
generated
worldwide, and
new power
reactors with***

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***improved fuel
cycles are being
developed. At the
same time, the
past few decades
have seen an
ever-increasing
number of
industrial,
medical, military,
and research
applications for
nuclear reactors.***

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The second edition of this successful comprehensive textbook and reference on basic and advanced nuclear reactor physics has been completely updated, revised and enlarged to

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***include the latest
developments.***

***The principal
goals of the
study were to
articulate the
scientific
rationale and
objectives of the
field and then to
take a long-term
strategic view of
U.S. nuclear***

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**science in the
global context for
setting future
directions for the
field. Nuclear
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Heart of Matter
provides a long-
term assessment
of an outlook for
nuclear physics.
The first phase of**

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the report articulates the scientific rationale and objectives of the field, while the second phase provides a global context for the field and its long-term priorities and proposes a framework for

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***progress through
2020 and beyond.
In the second
phase of the
study, also
developing a
framework for
progress through
2020 and beyond,
the committee
carefully
considered the
balance between***

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***universities and
government
facilities in terms
of research and
workforce
development and
the role of
international
collaborations in
leveraging future
investments.
Nuclear physics
today is a diverse***

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field,
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encompassing
research that
spans dimensions
from a tiny
fraction of the
volume of the
individual
particles
(neutrons and
protons) in the
atomic nucleus to
the enormous

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**scales of
astrophysical
objects in the
cosmos. Nuclear
Physics:
Exploring the
Heart of Matter
explains the
research
objectives, which
include the desire
not only to better
understand the**

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***nature of matter
interacting at the
nuclear level, but
also to describe
the state of the
universe that
existed at the big
bang. This report
explains how the
universe can now
be studied in the
most advanced
colliding-beam***

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**accelerators,
where strong
forces are the
dominant
interactions, as
well as the
nature of
neutrinos.
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bestselling first
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have been**

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advances in the
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science. In
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accelerator based
teletherapy and
electron-beam
therapy have
become
standard. New
demands in
national security**

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***have stimulated
major advances
in nuclear instru-
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ideal introduction
to the
fundamentals of
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and engineering,
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presents the
basic nuclear
science needed***

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**to understand
and quantify an
extensive range
of nuclear
phenomena. New
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chapter on
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detection by
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hazards, reactor
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applications
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organization of
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allows for quick
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at particle

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**accelerators,
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reactions and
devices, and
nuclear
technology in
medical
diagnostics and
treatment. In
addition, the
author discusses
applications such
as the direct**

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unparalleled,
ranging from the
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design
characteristics of
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to the
identification of***

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associated with
ionizing
radiation. All
topics are
supplemented
with extensive
nuclear data
compilations to
perform a wealth
of calculations.
Providing
extensive***

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physics, nuclear
science, and
nuclear
technology of all
types, this up-to-
date second
edition of
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and Engineering
is a key reference
for any physicists**

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text is aimed at
undergraduates in
science and
engineering who
require knowledge of
the fundamental
principles of nuclear*

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*emphasizes the applications About
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to Nuclear Physics and secondly its applications. The book also includes chapters on practical examples and problems. It also contains hints to solving problems which are included in the appendix.

*' The original edition
of Introduction to*

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*Nuclear and Particle
Physics was used with
great success for
single-semester
courses on nuclear
and particle physics
offered by American
and Canadian
universities at the
undergraduate level.
It was also translated
into German, and
used overseas. Being*

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less formal but well-written, this book is a good vehicle for learning the more intuitive rather than formal aspects of the subject. It is therefore of value to scientists with a minimal background in quantum mechanics, but is sufficiently substantive to have

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*been recommended
for graduate students
interested in the fields
covered in the text. In
the second edition,
the material begins
with an exceptionally
clear development of
Rutherford scattering
and, in the four
following chapters,
discusses sundry
phenomenological*

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*issues concerning
nuclear properties
and structure, and
general applications
of radioactivity and of
the nuclear force.*

*This is followed by
two chapters dealing
with interactions of
particles in matter,
and how these
characteristics are
used to detect and*

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identify such particles. A chapter on accelerators rounds out the experimental aspects of the field. The final seven chapters deal with elementary-particle phenomena, both before and after the realization of the Standard Model. This is interspersed with

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*discussion of
symmetries in
classical physics and
in the quantum
domain, bringing into
full focus the issues
concerning CP
violation, isotopic
spin, and other
symmetries. The final
three chapters are
devoted to the
Standard Model and*

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to possibly new physics beyond it, emphasizing unification of forces, supersymmetry, and other exciting areas of current research. The book contains several appendices on related subjects, such as special relativity, the nature of symmetry groups, etc.

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There are also many examples and problems in the text that are of value in gauging the reader's understanding of the material.

Contents: Rutherford Scattering Nuclear Phenomenology Nuclear Models Nuclear Radiation Applications of Nuclear

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*Physics Energy
Deposition in
Media Particle Detecti
on Accelerators Proper
ties and Interactions
of Elementary Particl
es Symmetries Discrete
Transformations Neut
ral Kaons,
Oscillations, and CP
Violation Formulation
of the Standard
Model Standard*

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***Model and
Confrontation with
Data***

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Standard Model
Readership:***

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undergraduates and
researchers in
nuclear and particle
physics.***

***Keywords: Rutherford
Scattering; Nuclear
Properties; Nuclear***

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*Structure;Elementary
Particles;Sub-
Structure of
Particles;Particle
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Konigsmann*

Universität Freiburg,
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very economic and
one can cover most of
the book in a one-
semester course. In
the second edition,
the authors updated
the contents to reflect
the very recent
developments in the
theory and*

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experiment. They managed to do it without substantial increase of the size of the book. I used the first edition several times to teach the course 'Introduction to Subatomic Physics' and I am looking forward to use this new edition to teach the course

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*next year.” Professor
Applications John
Mark Strikman
Lilley*
Pennsylvania State

University, USA

*“This book can be
recommended to
those who find
elementary particle
physics of absorbing
interest.”*

*Contemporary
Physics '*

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comprehensive
coverage of all
aspects of the subject,
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and developments. As
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reactors, along with a
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and weapons. A
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background is
required, but there is
ample opportunity to*

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nominal cost. The
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value as an
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nuclear science and
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can be of benefit to
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imaging is the
diagnostic technique
of using radiology
and chemical
markers to track
cardiac performance.
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studies provide a wide*

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important part of the
cardiologist's
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updated throughout
to reflect the many

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session on important
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issues.*

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physics methods
is now
widespread
throughout
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chemistry,

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metallurgy,
biology,
clinical
medicine,
geology, and
archaeology.
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reactors, and
various
instruments
that have
developed
together with

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nuclear physics
have often been
found to offer
the basis for
increasingly
productive and
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of the book
covers the
major points of
basic theory
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methods of
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physics,
emphasizing
concepts and
simple models
that give a

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effect, slow
neutron
physics,
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in ecology and
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alternative
nonnuclear
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techniques are
available, the
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the relevant
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state physics
with

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radiation, a
technique that
is finding a
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applications in
fields such as
magnetism,
surface

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science, and
lattice
dynamics. Due
to the
remarkable
brilliance of
modern
synchrotron
radiation
sources, the
method is
particularly
suited for the

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nanoparticles
and clusters.
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be employed to
measure
magnetic or
vibrational
properties with
very high

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and techniques
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that
demonstrate how
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an emphasis on
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activities to
save time and
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knowledge.

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***important role
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physics has
generated its
fundamental
principles. A
growing***

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practicing
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new***

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extreme
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and
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and the instru-
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and
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many worked-
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and dangers
from terrorism
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liferation.

The overall
status of
nuclear power
has changed
rather little
over the past
eight years.
Nuclear

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construction
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remains at a
very low ebb
in much of the
world, with
the exception
of Asia, while
nuclear
power's share
of the
electricity

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supply
continues to
be about 75%
in France and
20% in the
United States.
However, therea
resignsofaheig
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inconsideringp
ossible
nuclear

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growth. In the
late 1990s,
the U. S.

Department of
Energy began
new programs
to stimulate
research and
planning for
future
reactors, and
many candidate

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designs are
now
contending—at
least on
paper—to be
the next
generation
leaders.

Outside the
United States,
the commercial
development of

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the Pebble Bed Mo
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dular Reactor is
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being pursued in
South Africa, a F
rench- German
consortium has
won an order
from
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planned EPR
(European

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Pressurized
Water
Reactor), and
new reactors
have been
built or
planned in
Asia. In an
unanticipated
positive
development
for nuclear

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energy, the
capacity
factor of U.
S. reactors
has increased
dramatically
in recent
years, and
most operating
reactors now
appear headed
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