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Since the publication of the bestselling first edition, there have been numerous advances in the field of nuclear science. In medicine, accelerator based teletherapy and electron-beam therapy have become standard. New demands in national security have stimulated major advances in nuclear instrumentation. An ideal introduction to the fundamentals of nuclear science and engineering, this book presents the basic

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nuclear science needed to understand and quantify an extensive range of nuclear phenomena. New to the Second Edition- A chapter on radiation detection by Douglas McGregor Up-to-date coverage of radiation hazards, reactor designs, and medical applications Flexible organization of material that allows for quick reference This edition also takes an in-depth look at particle accelerators, nuclear fusion 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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conversion of nuclear energy into electricity. The breadth of coverage is unparalleled, ranging from the theory and design characteristics of nuclear reactors to the identification of biological risks associated with ionizing radiation. All topics are supplemented with extensive nuclear data compilations to perform a wealth of calculations. Providing extensive coverage of physics, nuclear science, and nuclear technology of all types, this up-to-date second edition of Fundamentals of Nuclear Science and Engineering is a key reference for any

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physicists or engineer. The text is designed for junior and senior level Nuclear Engineering students. The third edition of this highly respected text offers the most current and complete introduction to nuclear engineering available. Introduction to Nuclear Engineering has been thoroughly updated with new information on French, Russian, and Japanese nuclear reactors. All units have been revised to reflect current standards. In addition to the numerous end-of-chapter problems, computer exercises have been added.

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This book, part of the seven-volume series Major American Universities PhD Qualifying Questions and Solutions contains detailed solutions to 483 questions/problems on atomic, molecular, nuclear and particle physics, as well as experimental methodology. The problems are of a standard appropriate to advanced undergraduate and graduate syllabi, and blend together two objectives — understanding of physical principles and practical application. The volume is an invaluable supplement to textbooks.

Problems and Solutions

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**Manual Revised
Student Solutions Manual with
Study Guide for
Serway/Jewett's Principles of
Physics: A Calculus-Based
Text, Volume 2
Elements of Nuclear Physics
Student Solutions Manual for
Modern Physics, 3/e by Paul A.
Tipler and Ralph A. Llewellyn
Introduction to Nuclear and
Particle Physics**

This is the first quantitative treatment of elementary particle theory that is accessible to undergraduates. Using a lively, informal writing style, the author strikes a balance between quantitative rigor and intuitive understanding. The first chapter

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provides a detailed historical introduction to the subject. Subsequent chapters offer a consistent and modern presentation, covering the quark model, Feynman diagrams, quantum electrodynamics, and gauge theories. A clear introduction to the Feynman rules, using a simple model, helps readers learn the calculational techniques without the complications of spin. And an accessible treatment of QED shows how to evaluate tree-level diagrams. Contains an abundance of worked examples and many end-of-chapter problems.

Fundamentals of Nuclear Reactor Physics offers a one-semester treatment of the essentials of how the fission nuclear reactor works, the

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various approaches to the design of reactors, and their safe and efficient operation . It provides a clear, general overview of atomic physics from the standpoint of reactor functionality and design, including the sequence of fission reactions and their energy release. It provides in-depth discussion of neutron reactions, including neutron kinetics and the neutron energy spectrum, as well as neutron spatial distribution. It includes ample worked-out examples and over 100 end-of-chapter problems. Engineering students will find this applications-oriented approach, with many worked-out examples, more accessible and more meaningful as they aspire to become future nuclear

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engineers. A clear, general overview of atomic physics from the standpoint of reactor functionality and design, including the sequence of fission reactions and their energy release In-depth discussion of neutron reactions, including neutron kinetics and the neutron energy spectrum, as well as neutron spatial distribution Ample worked-out examples and over 100 end-of-chapter problems Full Solutions Manual

Unique in its coverage of all aspects of modern particle physics, this textbook provides a clear connection between the theory and recent experimental results, including the discovery of the Higgs boson at CERN. It provides a comprehensive

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and self-contained description of the Standard Model of particle physics suitable for upper-level undergraduate students and graduate students studying experimental particle physics. Physical theory is introduced in a straightforward manner with full mathematical derivations throughout. Fully-worked examples enable students to link the mathematical theory to results from modern particle physics experiments. End-of-chapter exercises, graded by difficulty, provide students with a deeper understanding of the subject. Online resources available at www.cambridge.org/MPP feature password-protected fully-worked

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solutions to problems for instructors, numerical solutions and hints to the problems for students and PowerPoint slides and JPEGs of figures from the book.

Introduction to Nuclear Physics

Modern Particle Physics

Fundamentals of Nuclear Science
and Engineering, Second Edition -
Solutions Manual

Fundamentals of Nuclear Science
and Engineering

Mathematical Methods for Physics
and Engineering

This two-volume manual features detailed solutions to 20 percent of the end-of-chapter problems from the text, plus lists of important equations and concepts, other study aids, and answers to selected end-of-chapter questions. Important Notice: Media

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

This Student Solution Manual provides

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complete solutions to all the odd-numbered problems in Foundation Mathematics for the Physical Sciences. It takes students through each problem step-by-step, so they can clearly see how the solution is reached, and understand any mistakes in their own working. Students will learn by example how to arrive at the correct answer and improve their problem-solving skills.

Handbook of Drug Metabolism, Third Edition

Solutions Manual for Second Edition of Text by Das and Ferbel

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

Subatomic Physics

Modern Physics Student Solutions Manual

This manual gives the solutions to all

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problems given in the book by A Das and T Ferbel. The problems are discussed in full detail, to help both the student and teacher get a better grasp of the issues brought up in the text and in the associated problems. The third edition of this highly acclaimed undergraduate textbook is suitable for teaching all the mathematics for an undergraduate course in any of the physical sciences. As well as lucid descriptions of all the topics and many worked examples, it contains over 800 exercises. New stand-alone chapters give a systematic account of the 'special functions' of physical science, cover an extended range of practical applications of complex variables, and give an introduction to quantum operators. Further tabulations, of relevance in statistics

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and numerical integration, have been added. In this edition, half of the exercises are provided with hints and answers and, in a separate manual available to both students and their teachers, complete worked solutions. The remaining exercises have no hints, answers or worked solutions and can be used for unaided homework; full solutions are available to instructors on a password-protected web site, www.cambridge.org/9780521679718

Accessible and flexible, MODERN PHYSICS, Third Edition has been specifically designed to provide simple, clear, and mathematically uncomplicated explanations of physical concepts and theories of modern physics. The authors clarify and show support for these theories

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through a broad range of current applications and examples- attempting to answer questions such as: What holds molecules together? How do electrons tunnel through barriers? How do electrons move through solids? How can currents persist indefinitely in superconductors? To pique student interest, brief sketches of the historical development of twentieth-century physics such as anecdotes and quotations from key figures as well as interesting photographs of noted scientists and original apparatus are integrated throughout. The Third Edition has been extensively revised to clarify difficult concepts and thoroughly updated to include rapidly developing technical applications in quantum physics. To complement the analytical solutions

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in the text and to help students visualize abstract concepts, the new edition also features free online access to QMTools, new platform-independent simulation software created by co-author, Curt Moyer, and developed with support from the National Science Foundation. Icons in the text indicate the problems designed for use with the software.

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Student Solutions Manual for
University Physics with Modern
Physics

Modern Physics + Student Solutions
Manual

Nuclear and Particle Physics
Solutions Manual for Second Edition
Student Solution Manual for

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Foundation Mathematics for the Physical Sciences

A dynamic, all-inclusive overview of the field of health physics. If it's an important topic in the field of health physics, you'll find it 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 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

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physical principles to a
useful look at the
interaction of 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
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
comprehension of chapter

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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! Essential coverage of non-ionizing radiation-laser and microwaves, computer use in dose calculation, and dose limit recommendations

' The original edition of Introduction to 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,

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and used overseas. Being 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 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 issues

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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 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 discussion of symmetries in classical physics and in the quantum

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

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Contents: Rutherford
Scattering Nuclear
Phenomenology Nuclear
Models Nuclear
Radiation Applications of
Nuclear Physics Energy
Deposition in Media Particle
Detection Accelerators Propert
ies and Interactions of
Elementary
Particles Symmetries Discrete
Transformations Neutral
Kaons, Oscillations, and CP
Violation Formulation of the
Standard Model Standard Model
and Confrontation with
Data Beyond the Standard
Model Readership: Advanced
undergraduates and
researchers in nuclear and
particle physics.
Keywords: Rutherford

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Scattering; Nuclear
Properties; Nuclear
Structure; Elementary
Particles; Sub-Structure of
Particles; Particle
Detectors; Interactions in
Matter; The Standard
Model; Symmetries of
Nature; Theories of Nuclear
and Particle Structure; Radio
activity; Supersymmetry
Reviews: "The book by Das and
Ferbel is particularly
suited as a basis for a one-
semester course on both
subjects since it contains a
very concise introduction to
those topics and I like very
much the outline and
contents of this book." Kay
Konigsmann Universität
Freiburg, Germany "The book

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provides an introduction to the subject very well suited for the introductory course for physics majors.

Presentation is very clear and nicely balances the issues of nuclear and particle physics, exposes both theoretical ideas and modern experimental methods.

Presentation is also 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 experiment. They managed to do it without substantial increase of the size of the book. I used the first

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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 next year." Professor Mark Strikman Pennsylvania State University, USA "This book can be recommended to those who find elementary particle physics of absorbing interest." Contemporary Physics '

This is the solutions manual for many (particularly odd-numbered) end-of-chapter problems in Subatomic Physics, 3rd Edition by Henley and Garcia. The student who has worked on the problems will find the

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solutions presented here a useful check on answers and procedures.

Student Solution Manual for
Essential Mathematical
Methods for the Physical
Sciences

Student Solutions Manual for
Thornton/Rex's Modern
Physics for Scientists and
Engineers

Introduction to Elementary
Particles

Fundamentals of Nuclear
Reactor Physics

Solutions Manual

The parent text, Nuclear and Particle Physics, deals with nuclear and particle physics at an introductory level. The first part of the text covers nuclear properties, decay, structure and reactions,

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followed by a chapter which provides a bridge from nuclear forces and beta-decay to elementary particles and their interactions. The book concludes with two chapters dealing with problems facing particle physics and with the astrophysical and cosmological implications of these subjects. The solutions manual provides detailed solutions to all of the problems contained in the parent text. For convenience the problems themselves are also included. This will be useful as a sourcebook for lecturers and as a revision aid for students in its own right. provides

Since the publication of the bestselling first edition, there have been numerous advances in the field of nuclear science. In

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medicine, accelerator based teletherapy and electron-beam therapy have become standard. New demands in national security have stimulated major advances in nuclear instrumentation. An ideal introduction to the fundamentals of nuclear science and engineering, this book presents the basic nuclear science needed to understand and quantify an extensive range of nuclear phenomena. New to the Second Edition— A chapter on radiation detection by Douglas McGregor Up-to-date coverage of radiation hazards, reactor designs, and medical applications Flexible organization of material that allows for quick reference This edition also takes an in-depth look at particle accelerators, nuclear fusion

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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 conversion of nuclear energy into electricity. The breadth of coverage is unparalleled, ranging from the theory and design characteristics of nuclear reactors to the identification of biological risks associated with ionizing radiation. All topics are supplemented with extensive nuclear data compilations to perform a wealth of calculations. Providing extensive coverage of physics, nuclear science, and nuclear technology of all types, this up-to-date second edition of Fundamentals of Nuclear Science and Engineering is a key reference for any physicists or engineer.

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The Student Solutions Manual contains detailed solutions to 25 percent of the end-of-chapter problems, as well as additional problem-solving techniques. Modern Atomic and Nuclear Physics (revised Edition): Problems and Solutions Manual

Atomic Nuclear Physics Solutions Manual

NUCLEAR PHYSICS: PRINCIPLES AND APPLICATIONS

Subatomic Physics Solutions Manual (3rd Edition)

Introduction to Health Physics: Fourth Edition

This Student Solution Manual provides complete solutions to all the odd-numbered problems in Essential Mathematical Methods for the Physical Sciences. It takes

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students through each problem step-by-step, so they can clearly see how the solution is reached, and understand any mistakes in their own working. Students will learn by example how to select an appropriate method, improving their problem-solving skills. This problems and solutions manual is intended as a companion to an earlier textbook, Modern Atomic and Nuclear Physics (Revised Edition) (World Scientific, 2010). This manual presents solutions to many end-of-chapter problems in the textbook. These solutions are valuable to the instructors and students

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working in the modern atomic field. Students can master important information and concept in the process of looking at solutions to some problems, and become better equipped to solve other problems that the instructors propose. This solutions manual has a companion textbook. They are available as a paperback set with Modern Atomic and Nuclear Physics (Revised Edition). Sample Chapter(s)

Chapter 1: Theory of Relativity (63 KB) Chapter 2: The Configuration of Atom: Rutherford's Model (85 KB) Chapter 12: Nuclear Interactions and Reactions (103 KB)

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"The textbook itself is the culmination of the authors' many years of teaching and research in atomic physics, nuclear and particle physics, and modern physics. It is also a crystallization of their intense passion and strong interest in the history of physics and the philosophy of science. Together with the solution manual which presents solutions to many end-of-chapter problems in the textbook, they are a valuable resource to the instructors and students working in the modern atomic field."--Publisher's website.

Solutions Manual for Nuclear

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*and Particle Physics
Student Solutions Manual for
Thornton/Rex's Modern
Physics for Scientists and
Engineers, 4th
Problems and Solutions on
Atomic, Nuclear and Particle
Physics*

*Student Solutions Manual for
Thornton and Marion's
Classical Dynamics of
Particles and Systems
Nuclear Energy*

*Student Solutions Manual
to accompany Modern
Physics, fifth edition.
The Student Solutions
Manual contains answers
and worked-out solutions
to selected end-of-chapter
Questions and Problems.*

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Again, Chapters 1 through 13 include worked out-solutions following the complete 7-step problem solving method from the text for Problems and Additional Problems.

Chapters 14 through 40 continue to use the 7-step problem solving method for challenging (one bullet) and most challenging (two bullet) Problems and Additional Problems, while switching to a more abbreviated solution for the less challenging (no bullet) Problems and Additional Problems.

Market_Desc: This text is

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aimed at undergraduates in science and engineering who require knowledge of the fundamental principles of nuclear physics and its applications. Special Features: The book offers numerous practical examples and problems to enhance the material. It avoids complex and extensive mathematical treatments. It covers the basic theory but emphasizes the applications

About The Book: This title provides the latest information on applications of Nuclear Physics. Written from an

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experimental point of view this text is broadly divided into two parts, firstly a general introduction 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.

*A Comprehensive Guide
Modern Atomic and Nuclear
Physics*

*Fundamentals of Nuclear
Science and Engineering
Second Edition*

Modern Physics

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*Solutions Manual to
Accompany Introductory
Nuclear Physics*

The second edition of a bestseller, this book presents the latest innovative research methods that help break new ground by applying patterns, reuse, and design science to research. The book relies on familiar patterns to provide the solid fundamentals of various research philosophies and techniques as touchstones that demonstrate how to innovate research methods. Filled with practical examples of applying patterns to IT research with an emphasis on reusing research activities to save time and money, this book describes design science research in relation to other

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information systems research paradigms such as positivist and interpretivist research.

The student solutions manual contains detailed solutions to approximately 25% of the end-of-chapter problems. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

For undergraduate physics students or for nuclear engineers.

An Introduction

Introductory Nuclear Physics

Introduction to Nuclear Engineering

Contains worked solutions to every third end-of-chapter problem in the text.

This expanded, revised, and updated fourth edition of Nuclear Energy

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maintains the tradition of providing clear and comprehensive coverage of all aspects of the subject, with emphasis on the explanation of trends and developments. As in earlier editions, the book is divided into three parts that achieve a natural flow of ideas: Basic Concepts, including the fundamentals of energy, particle interactions, fission, and fusion; Nuclear Systems, including accelerators, isotope separators, detectors, and nuclear reactors; and Nuclear Energy and Man, covering the many applications of radionuclides, radiation, and reactors, along with a discussion of wastes and weapons. A minimum of mathematical background is required, but there is ample opportunity to learn characteristic numbers through the illustrative

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calculations and the exercises. An updated Solution Manual is available to the instructor. A new feature to aid the student is a set of some 50 Computer Exercises, using a diskette of personal computer programs in BASIC and spreadsheet, supplied by the author at a nominal cost. The book is of principal value as an introduction to nuclear science and technology for early college students, but can be of benefit to science teachers and lecturers, nuclear utility trainees and engineers in other fields. Fundamentals of Nuclear Science and Engineering provides an ideal introduction to the subject. The first half of the text reviews the important results of "modern" physics and introduces the fundamentals of nuclear science. The second half introduces the theory of

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nuclear reactors and its application in electrical power production and propulsion. It also surveys many other applications of nuclear technology encountered in space research, industry, and medicine. Each chapter contains extensive problem sets, and appendices at the end of the text furnish large amounts of practical data that enable students to perform a wealth of calculations. Among the myriad concepts, principles, and applications addressed in this text, Fundamentals of Nuclear Science and Engineering Describes sources of radiation, radiation interactions, and the results of such interactions Summarizes developments in the creation of atomic and nuclear models Develops the kinematics and energetics of nuclear reactions and radioactivity Identifies

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and assesses biological risks associated with ionizing radiation Presents the theory of nuclear reactors and their dynamic behavior Discusses the design and characteristics of modern nuclear power reactors Summarizes the nuclear fuel cycle and radioactive waste management Describes methods for directly converting nuclear energy into electricity Presents an overview of nuclear propulsion for ships and space crafts Explores the use of nuclear techniques in medical therapy and diagnosis Covers basic concepts in theory of special relativity, wave-particle duality, and quantum mechanics

Fundamentals of Nuclear Science and Engineering builds the background students embarking on the study of nuclear engineering and technology need

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*to understand and quantify nuclear
phenomena and to move forward into
higher-level studies.*