



Philippine Nuclear Research Institute  
Nuclear Training Center

# **BASIC NUCLEAR PHYSICS**



## **BASIC NUCLEAR PHYSICS**

### **OBJECTIVES**

- ⌘ **To review the structure of the atom which will serve as a basis to understand the nuclear structure.**
- ⌘ **To describe the nuclear structure**
- ⌘ **To explain the basis for the phenomenon of nuclear disintegration and radioactivity.**

# Basic Nuclear Physics

**Brian R. Martin, Graham Shaw**



## Basic Nuclear Physics:

Basic Nuclear Physics United States. Bureau of Naval Personnel, 1958      Basic Ideas and Concepts in Nuclear Physics K Heyde, 2020-12-19 The third edition of a classic book Basic Ideas and Concepts in Nuclear Physics sets out in a clear and consistent manner the various elements of nuclear physics Divided into four main parts the constituents and characteristics of the nucleus nuclear interactions including the strong weak and electromagnetic forces an introduction to nuclear structure and recent developments in nuclear structure research the book delivers a balanced account of both theoretical and experimental nuclear physics for students studying the topic In addition to the numerous revisions and updates to the previous edition to capture the developments in the subject over the last five years the book contains a new chapter on the structure and stability of very light nuclei As with the previous edition the author retains a comprehensive set of problems and the book contains an extensive and well chosen set of diagrams He keeps the book up to date with recent experimental and theoretical research provides mathematical details as and when necessary and illustrates topics with box features containing examples of recent experimental and theoretical research results      An Introduction to Nuclear Physics W. N. Cottingham, D. A. Greenwood, 2001-02-22 This clear and concise introduction to nuclear physics provides an excellent basis for a core undergraduate course in this area The book opens by setting nuclear physics in the context of elementary particle physics and then shows how simple models can provide an understanding of the properties of nuclei both in their ground states and excited states and also of the nature of nuclear reactions The book also includes chapters on nuclear fission its application in nuclear power reactors the role of nuclear physics in energy production and nucleosynthesis in stars This second edition contains several additional topics muon catalysed fusion the nuclear and neutrino physics of supernovae neutrino mass and neutrino oscillations and the biological effects of radiation A knowledge of basic quantum mechanics and special relativity is assumed Appendices deal with other more specialized topics Each chapter ends with a set of problems for which outline solutions are provided      Nuclear Physics John Lilley, 2001-08-22 This work presents students with a textbook in nuclear physics based on a course entitled Applications of Nuclear Physics It provides straight forward extensive mathematical treatments and covers the basic theory emphasising the important applications      Basic Concepts of Nuclear Physics Jagadish B. Garg, 2009-09-25 book provides a clear and concise discussion of basic concepts of nuclear physics to be covered in a one semester course in nuclear physics offered in colleges and universities This course can be taken by physics and nuclear engineering seniors and graduate students who have taken one semester of quantum mechanics and a course in math Methods of physics This book begins with the general properties of nuclei In chapters 2 and 3 it discusses the nature of nuclear force as learned from the properties of deuteron and from the two body interactions of  $n$   $n$   $n$   $p$  and  $p$   $p$  pairs In chapter 4 it gives discussion of the nuclear structure in terms of different nuclear models such as shell collective vibration and rotation unified and liquid drop The models are applicable in different mass regions of nuclei In chapter 5 discussion is

given about and ray modes of decay of unstable nuclei Chapter 6 deals with different types of nuclear reactions induced by n p d t particles etc These reactions are compound nucleus formation direct reactions such as stripping knock out pick up reactions photonuclear reactions nuclear fission and nuclear fusion etc Chapter 7 gives a brief discussion of application of nuclear physics to other fields such as bio medical nuclear energy industry crime detection and astrophysics In chapter 8 I have given conceptual problems related to each chapter The main feature of this book is that it gives a coherent treatment of each topic of nuclear physics in the proper order Book Review Basic concepts of nuclear physics written by Jagadish B Garg Physics Professor State University at Albany is a timely book To my knowledge no other text book on this subject had been published in recent years This book is written in a clear concise and orderly fashion The book begins with a discussion of the discovery of nucleus by Lord Rutherford and then describes all the basic properties of nuclei In chapters 2 and 3 the author discusses the nucleon nucleon force determined by properties of deuterons and from interaction of pairs of nucleons In chapter 4 he discusses nuclear structure as described by shell collective rotation vibration unified and liquid drop models In chapter 5 he discusses various nuclear modes such as alpha beta and gamma decay of unstable nuclei In chapter 6 he discusses nuclear reactions induced by neutrons protons deuterons He 3 He 4 and triton particles photo nuclear reactions nuclear fission and fusion Theoretical treatment of these topics is appropriate for an introductory survey course in nuclear physics Chapter 7 gives a brief discussion of application of nuclear physics to nuclear energy to medical field such as diagnostic and treatment of human diseases application to astro physics crime detection and determination of pollution in the environment The author is internationally known for his extensive research on many topics of nuclear physics The author should be complimented for a clear and concise discussion of all important topics of nuclear physics This book is suitable for a one semester survey course in nuclear physics to be given in physics and nuclear engineering departments I have taught introductory course in nuclear physics at Rensselaer Polytechnic Institute for many years and would have adopted this book if it was then available I would recommend this book to other professors teaching an introductory survey course on nuclear physics Norman Francis Adjunct Professor at RPI retired Fellow of American Nuclear Society

**Fundamentals in Nuclear Physics** Jean-Louis Basdevant, James Rich, Michael Spiro, 2005-06-06 Covers all the phenomenological and experimental data on nuclear physics and demonstrates the latest experimental developments that can be obtained Introduces modern theories of fundamental processes in particular the electroweak standard model without using the sophisticated underlying quantum field theoretical tools Incorporates all major present applications of nuclear physics at a level that is both understandable by a majority of physicists and scientists of many other fields and useful as a first introduction for students who intend to pursue in the domain

**Basic Nuclear Physics** S. P. Sahu, 2010-01-01 Modern Nuclear Physics Alexandre Obertelli, Hiroyuki Sagawa, 2021-09-25 This textbook is a unique and ambitious primer of nuclear physics which introduces recent theoretical and experimental progresses starting from basics in fundamental quantum mechanics The highlight is to

offer an overview of nuclear structure phenomena relevant to recent key findings such as unstable halo nuclei superheavy elements neutron stars nucleosynthesis the standard model lattice quantum chromodynamics LQCD and chiral effective theory An additional attraction is that general properties of nuclei are comprehensively explained from both the theoretical and experimental viewpoints The book begins with the conceptual and mathematical basics of quantum mechanics and goes into the main point of nuclear physics nuclear structure radioactive ion beam physics and nuclear reactions The last chapters devote interdisciplinary topics in association with astrophysics and particle physics A number of illustrations and exercises with complete solutions are given Each chapter is comprehensively written starting from fundamentals to gradually reach modern aspects of nuclear physics with the objective to provide an effective description of the cutting edge in the field

**The Basics of Nuclear Physics** Leonel Ware, 2025-08-25 Nuclear physics is the domain of physics dedicated to the study of atomic nuclei their constituents and interactions The emergence of this field has paved the way for numerous advancements These include the emergence of fields like nuclear weapons nuclear power radiocarbon dating and nuclear medicine Progress in nuclear physics has also given rise to particle physics Various aspects are explored within this discipline including nuclear decay nuclear fusion nuclear fission and the synthesis of heavy elements This book explores all the important aspects of nuclear physics in the present day scenario It elucidates new techniques and their applications in a multidisciplinary approach It is designed to provide deep insights about the subject to the readers

**Basic Concepts of Nuclear Physics** J. B. Garg, 2009 book provides a clear and concise discussion of basic concepts of nuclear physics to be covered in a one semester course in nuclear physics offered in colleges and universities This course can be taken by physics and nuclear engineering seniors and graduate students who have taken one semester of quantum mechanics and a course in math Methods of physics This book begins with the general properties of nuclei In chapters 2 and 3 it discusses the nature of nuclear force as learned from the properties of deuteron and from the two body interactions of  $n$   $n$   $n$   $p$  and  $p$   $p$  pairs In chapter 4 it gives discussion of the nuclear structure in terms of different nuclear models such as shell collective vibration and rotation unified and liquid drop The models are applicable in different mass regions of nuclei In chapter 5 discussion is given about and ray modes of decay of unstable nuclei Chapter 6 deals with different types of nuclear reactions induced by  $n$   $p$   $d$   $t$  particles etc These reactions are compound nucleus formation direct reactions such as stripping knock out pick up reactions photonuclear reactions nuclear fission and nuclear fusion etc Chapter 7 gives a brief discussion of application of nuclear physics to other fields such as bio medical nuclear energy industry crime detection and astrophysics In chapter 8 I have given conceptual problems related to each chapter The main feature of this book is that it gives a coherent treatment of each topic of nuclear physics in the proper order Book Review Basic concepts of nuclear physics written by Jagadish B Garg Physics Professor State University at Albany is a timely book To my knowledge no other text book on this subject had been published in recent years This book is written in a clear concise and orderly fashion The book begins with a discussion of the

discovery of nucleus by Lord Rutherford and then describes all the basic properties of nuclei In chapters 2 and 3 the author discusses the nucleon nucleon force determined by properties of deuterons and from interaction of pairs of nucleons In chapter 4 he discusses nuclear structure as described by shell collective rotation vibration unified and liquid drop models In chapter 5 he discusses various nuclear modes such as alpha beta and gamma decay of unstable nuclei In chapter 6 he discusses nuclear reactions induced by neutrons protons deuterons  $^3\text{He}$   $^4\text{He}$  and triton particles photo nuclear reactions nuclear fission and fusion Theoretical treatment of these topics is appropriate for an introductory survey course in nuclear physics Chapter 7 gives a brief discussion of application of nuclear physics to nuclear energy to medical field such as diagnostic and treatment of human diseases application to astro physics crime detection and determination of pollution in the environment The author is internationally known for his extensive research on many topics of nuclear physics The author should be complimented for a clear and concise discussion of all important topics of nuclear physics This book is suitable for a one semester survey course in nuclear physics to be given in physics and nuclear engineering departments I have taught introductory course in nuclear physics at Rensselaer Polytechnic Institute for many years and would have adopted this book if it was then available I would recommend this book to other professors teaching an introductory survey course on nuclear physics Norman Francis Adjunct Professor at RPI retired Fellow of American Nuclear Society

**Basic Ideas and Concepts in Nuclear Physics, An Introductory Approach** Kris L. G. Heyde, 1999 This is the second edition of an established textbook on nuclear physics for senior undergraduates and postgraduate students Professor Heyde has taken the opportunity to make the book more useful for students and teachers by adding an extensive set of problems To bring the book up to date he has revised several chapters and added a new chapter on nuclei at the extremes of stability The book has evolved from a course taught by the author and gives a balanced account of both theoretical and experimental nuclear physics It is also ideal for researchers wanting an accessible introduction to the subject Emphasis is given to depth of treatment rather than skimming over topics and there are many diagrams as well as box inserts illustrating particular topics

*The Basics of Nuclear Physics* Christopher Cooper, 2014-07-15 When we think of nuclear physics we often think of the fraught issues of nuclear power generation and nuclear weapons However nuclear physics has many other practical applications including in the fields of nuclear medicine materials engineering and geology and archaeology The history of nuclear physics is full of fascinating figures Rutherford Geiger Bohr Einstein Oppenheimer and highly dramatic experiments triumphs and utter tragedies Capturing both the promise and the peril of this most fascinating science with compelling comprehensible text and full color photos and explanatory visual aids this volume introduces readers to the most transformative science of the modern era

**Basic Concepts in Nuclear and Particle Physics** Y. P. Singh, 2021-03-06 The book *Basic Concepts in Nuclear and Particle Physics* in very simple language so as to make it understandable to a physics student In this way the present textbook is designed to serve the needs of students who will use this book as an introduction

to nuclear physics and go no further      Nuclear and Particle Physics Brian R. Martin, Graham Shaw, 2019-03-18 Updated and expanded edition of this well known Physics textbook provides an excellent Undergraduate introduction to the field This new edition of Nuclear and Particle Physics continues the standards established by its predecessors offering a comprehensive and highly readable overview of both the theoretical and experimental areas of these fields The updated and expanded text covers a very wide range of topics in particle and nuclear physics with an emphasis on the phenomenological approach to understanding experimental data It is one of the few publications currently available that gives equal treatment to both fields while remaining accessible to undergraduates Early chapters cover basic concepts of nuclear and particle physics before describing their respective phenomenologies and experimental methods Later chapters interpret data through models and theories such as the standard model of particle physics and the liquid drop and shell models of nuclear physics and also discuss many applications of both fields The concluding two chapters deal with practical applications and outstanding issues including extensions to the standard model implications for particle astrophysics improvements in medical imaging and prospects for power production There are a number of useful appendices Other notable features include New or expanded coverage of developments in relevant fields such as the discovery of the Higgs boson recent results in neutrino physics research to test theories beyond the standard model such as supersymmetry and important technical advances such as Penning traps used for high precision measurements of nuclear masses Practice problems at the end of chapters excluding the last chapter with solutions to selected problems provided in an appendix as well as an extensive list of references for further reading Companion website with solutions odd numbered problems for students all problems for instructors PowerPoint lecture slides and other resources As with previous editions the balanced coverage and additional resources provided makes Nuclear and Particle Physics an excellent foundation for advanced undergraduate courses or a valuable general reference text for early graduate studies      **Introductory Nuclear Physics** Kenneth S. Krane, 1991-01-16

INTRODUCTORY NUCLEAR PHYSICS      *Basic Nuclear Physics* William, J R and William, M W, Samuel E. Otto, United States. Defense Atomic Support Agency, 1961      Nuclear Methods in Science and Technology Yuri M. Tsipenyuk, 2019-05-20 The application of nuclear physics methods is now widespread throughout physics chemistry metallurgy biology clinical medicine geology and archaeology Accelerators reactors and various instruments that have developed together with nuclear physics have often been found to offer the basis for increasingly productive and more sensitive analytical techniques Nuclear Methods in Science and Technology provides scientists and engineers with a clear understanding of the basic principles of nuclear methods and their potential for applications in a wide range of disciplines The first part of the book covers the major points of basic theory and experimental methods of nuclear physics emphasizing concepts and simple models that give a feel for the behavior of real systems Using many examples the second part illustrates the extraordinary possibilities offered by nuclear methods It covers the Mossbauer effect slow neutron physics activation analysis radiography nuclear geochronology

channeling effects nuclear microprobe and numerous other topics in modern applied nuclear physics The book explores applications such as tomography the use of short lived isotopes in clinical diagnoses and nuclear physics in ecology and agriculture Where alternative nonnuclear analytical techniques are available the author compares the relevant nuclear method enabling readers to judge which technique may be most useful for them Complete with a bibliography and extensive reference list for readers who want to delve deeper into a particular topic this book applies various methods of nuclear physics to a wide range of disciplines **Basic Nuclear Physics** Ian Ronald Williams, Mary Wendy Williams, 1962

**Atomic And Nuclear Physics:** Sharma, Shatendra K., 2004 Atomic and Nuclear Physics describes the basics of atomic and nuclear physics related phenomena and the physics of nuclear reactors and the Instruments and applications for the same The flow of the chapters in the book gradually moves from atomic physics then to quantum physics and finally to nuclear physics **Experimental Techniques in Nuclear and Particle Physics** Stefaan Tavernier, 2010-02-06 I have been teaching courses on experimental techniques in nuclear and particle physics to master students in physics and in engineering for many years This book grew out of the lecture notes I made for these students The physics and engineering students have rather different expectations of what such a course should be like I hope that I have nevertheless managed to write a book that can satisfy the needs of these different target audiences The lectures themselves of course need to be adapted to the needs of each group of students An engineering student will not question a statement like the velocity of the electrons in atoms is 1% of the velocity of light a physics student will Regarding units I have written factors  $h$  and  $c$  explicitly in all equations throughout the book For physics students it would be preferable to use the convention that is common in physics and omit these constants in the equations but that would probably be confusing for the engineering students Physics students tend to be more interested in theoretical physics courses However physics is an experimental science and physics students should understand how experiments work and be able to make experiments work This is an open access book



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