

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**

Alexandre Obertelli, Hiroyuki Sagawa

#### **Basic Nuclear Physics:**

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 Basic Nuclear Physics United States. Bureau of Naval Personnel,1958 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 Basic Ideas and Concepts in Nuclear Physics Kris L. G. Heyde, 1994 which outline solutions are provided 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 Garq 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 Renssaeler Polytecnique 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 **Nuclear Physics** John Lilley, 2013-06-05 This title provides the latest information on nuclear physics Based on a course entitled Applications of Nuclear Physics Written from an experimental point of view this text is broadly divided into two parts firstly a general introduction to Nuclear Physics and secondly its applications Includes chapters on practical examples and problems Contains hints to solving problems which are included in the appendix Avoids complex and extensive mathematical treatments A modern approach to nuclear physics covering the basic theory but emphasising the many and important Modern Nuclear Physics Alexandre Obertelli, Hiroyuki Sagawa, 2021-09-25 This textbook is a unique and applications 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 **NUCLEAR PHYSICS: PRINCIPLES AND APPLICATIONS** Lilley, 2006-09 Market Desc This text is 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 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 Basic Nuclear Physics S. P. Sahu, 2010-01-01 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 guantum 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 Garq 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 Renssaeler Polytecnique 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

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