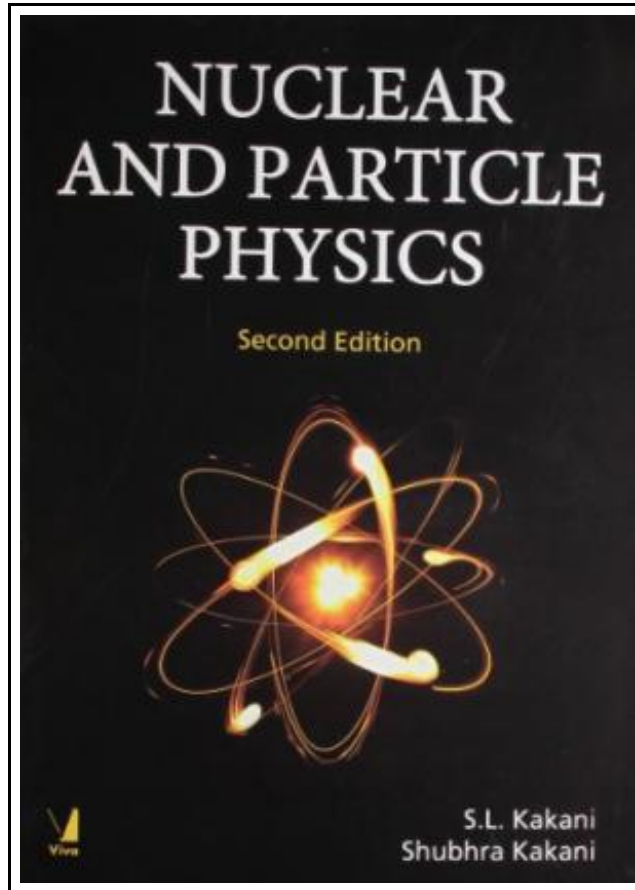


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NUCLEAR AND PARTICLE PHYSICS (SECOND EDITION)



Viva Books, 2013. Softcover. Book Condition: New. 2nd edition. This book is aimed at students of B.Sc. (Hons.), M.Sc. and M.Phil. in Physics. It examines the major developments in nuclear and particle physics that have taken place in the past few years. Written according to the UGC curriculum, the book presents the subject comprehensively. Besides, it also reflects new trends in the study of nuclear and particle physics. The book provides 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. Relationships with the underlying quark substructure of nucleons and the fundamental interactions between the elementary building blocks of nuclei are emphasized. The text offers concise coverage of nuclear and particle physics in a lucid and uncomplicated manner. Each chapter contains a wide range of worked-out problems. At the end of each chapter a good number of review questions, exercises, short question-answers and objective questions are provided so that the book may also be useful for UGC-CSIR, NET-SLET and other competitive examinations. Contents: Chapter 1 The Nucleus ? Introduction ? Rutherford's Theory of Alpha Particle Scattering ? Chadwick's Method of Measuring the Charge on the Nucleus ? General Characteristics of Atomic Nuclei in their Ground States Chapter 2 Radioactivity ? Introduction ? Properties of Radioactive Rays ? Radioactive Decay ? Unit of Activity ? Successive Disintegrations (Radioactive Growth and Decay) ? Radioactive Equilibrium ? Radioactive Series ? Radioactive Branching ? Radon Gas ? Radioactive Isotopes of Lighter Elements ? Statistical Nature of Radioactivity ? Statistical Errors of Nuclear Physics ? Measurement of Decay Constant ? Radioactive Dating: The Age of Minerals and Rocks ? Artificial Radioactivity ? Uses of Radio-isotopes Chapter 3 Nuclear Decay ? Nuclear Decay ? Alpha(a)-decay ? Range of a-particles ?...



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