



Shapes and Shells in Nuclear Structure

Ingemar Ragnarsson, Sven Gvsta Nilsson

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There are a variety of models which can be used to study nuclear structure and dynamics. This book gives a comprehensive overview of these various models, concentrating in particular on a description of deformed and rotating nuclei. Following a treatment of the semi-empirical mass formula and nuclear stability, the liquid-drop and simple shell models are introduced and described. The spherical nuclear one-particle potential is introduced and developed to cover the case of deformed nuclei. The latter chapters of the book are devoted to discussions of barrier penetration, fast nuclear rotation, nucleon-nucleon interactions and the pairing interaction. Many problems and solutions are included, which help to illustrate key concepts. The book will be invaluable to graduate students of nuclear physics, and to anyone engaged in research in this field.

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