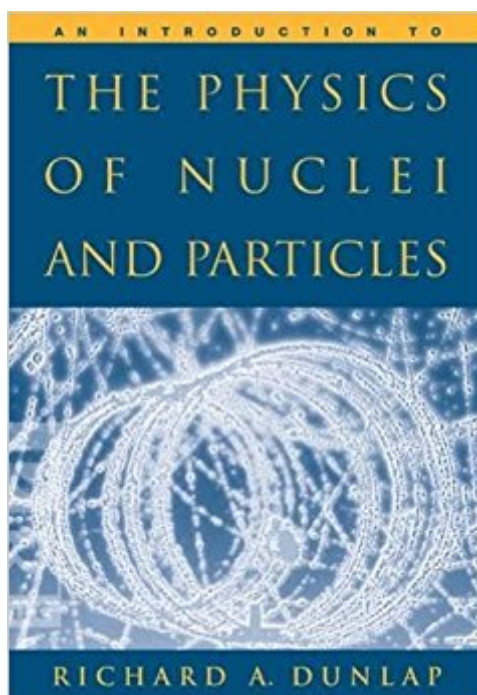


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An Introduction To The Physics Of Nuclei And Particles



Synopsis

Timely and engaging, AN INTRODUCTION TO THE PHYSICS OF NUCLEI AND PARTICLES focuses on one of the most exciting areas of physics. Author Richard Dunlap has taught this course for the last ten years-during the last two of which he used this text successfully in his own classroom. The author designed this text to provide flexibility and freedom for instructors teaching a one-semester course by including a wealth of problems as well as approximately 20% more material than is necessary for the average 14-week course. In order to ensure that the book is up-to-date and interesting for the students, the author has included recent research results whenever possible and has presented data from ongoing experiments. This is particularly relevant for fields in which there is considerable current research activity, such as neutrino masses and oscillations, quark masses and controlled fusion.

Book Information

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"I really like the author's approach and the coverage provided by this prospective text. It is much like the text we use but is more compact, while hardly compromising the coverage. And, of course, it is up-to-date. I would likely adopt it and/or recommend adoption to whomever was teaching our two-quarter upper division nuclear course. I think the resulting text would be the leading candidate for adoption."

Richard A. Dunlap is a research professor in the Department of Physics and Atmospheric Science at Dalhousie University. He received a B.S. in Physics from Worcester Polytechnic Institute (1974),

an A.M. in Physics from Dartmouth College (1976) and a Ph.D. in Physics from Clark University (1981). Since 1981 he has been on the faculty at Dalhousie University. From 2001 to 2006 he was Killam Research Professor of Physics and from 2009 to 2015 he was Director of the Dalhousie University Institute for Research in Materials. Professor Dunlap is author of three previous textbooks: EXPERIMENTAL PHYSICS: MODERN METHODS (Oxford 1988), THE GOLDEN RATIO AND FIBONACCI NUMBERS (World Scientific 1997), and AN INTRODUCTION TO THE PHYSICS OF NUCLEI AND PARTICLES (Brooks/Cole 2004). Over the years his research interests have included critical phenomena, magnetic materials, amorphous materials, quasicrystals, hydrogen storage, superconductivity, and materials for advanced rechargeable batteries. He has published more than 300 refereed research papers.

Although this is labeled an introductory text, it definitely assumes a particular level of knowledge of nuclear chemistry and physics. It also sort of jumps around from topic to topic. That being said, it does have all of the necessary basics when talking about nuclear chemistry. There are some handy charts, graphs, and pictures that can be used as a reference as well.

Perfect for undergrads

This book is an excellent book in nuclear physics .. Especially for undergraduate students ..

I've read a few books on nuclear physics, but this one is pretty concise. It doesn't give too many examples (proofs), but it has the basic formula and follows an "easy to read" format. I liked it.

The book was just what I needed for 100 dollars less than my school bookstore. It got here fast. Thanks a lot

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