



Solid State Theory

By Walter A. Harrison

Dover Publications Inc., United States, 2011. Paperback. Book Condition: New. 201 x 142 mm. Language: English . Brand New Book. A well-written text . . . should find a wide readership, especially among graduate students. -- Dr. J. I. Pankove, RCA. The field of solid state theory, including crystallography, semi-conductor physics, and various applications in chemistry and electrical engineering, is highly relevant to many areas of modern science and industry. Professor Harrison s well-known text offers an excellent one-year graduate course in this active and important area of research. While presenting a broad overview of the fundamental concepts and methods of solid state physics, including the basic quantum theory of solids, it surpasses more theoretical treatments in its practical coverage of physical applications. This feature makes the book especially useful to specialists in other fields who many encounter solid state problems in their own work. At least one year of quantum mechanics is required; however, the author introduces more advanced methods as needed. Because virtually all of the properties of solids are determined by the valence electrons, the author devotes the first third of the book to electron states, including solid types and symmetry, band structure, electron dynamics, the self-consistent-field...



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Reviews

Extensive guideline! Its this sort of excellent read. it had been writtern quite properly and helpful. You can expect to like just how the writer create this book.

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This book will never be straightforward to start on reading through but quite enjoyable to learn. Better then never, though i am quite late in start reading this one. Your lifestyle span will probably be convert once you complete reading this publication.

-- Dr. Kadin Hane DVM