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In 1990 he was named the Horace White Professor of Physics, and was elected to emeritus status in 2006. He served as the director for the Laboratory of Atomic and Solid State Physics at Cornell University (1979-1984), the director for the Cornell Center for Materials Research (1997-2000), and as the deputy director for the High Energy Synchrotron Source (1990-1997).

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## **Syllabus | Physics of Solids I | Physics | MIT OpenCourseWare**

N.W. Ashcroft and N.D. Mermin, Solid State Physics, (Holt, Rinehart and Winston, New York 1976). [Google Scholar](#)

This book provides an introduction to the field of solid state physics for undergraduate students in physics, chemistry, engineering, and materials science.

This 35 chapter, revised edition of Ashcroft and Mermin's Solid State Physics (1976) maintains its predecessor's style whilst covering novel developments in the field of solid state physics. Regarding electronic structure, density functional theory's inclusion completes the description of the many-body electronic theory of crystals. The theory of harmonic crystal and superconductivity are similarly augmented. New chapters on semiconductor devices, piezoelectricity, applied magnetism, spintronics, and the Quantum Hall effect have been added. Various kinds of characterization methods of solids, including diffraction methods, are introduced in the beginning and the end chapters of the book. This book inherits the merit of the first edition, and endeavors to serve better all readers who are interested in solid state physics and related fundamentals in the physical science of high technology.

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This is a first undergraduate textbook in Solid State Physics or Condensed Matter Physics. While most textbooks on the subject are extremely dry, this book is written to be much more exciting, inspiring, and entertaining.

Solid state physics continues to be the most rapidly growing subdiscipline in physics. As a result, entering graduate students wishing to pursue research in this field face the daunting task of not only mastering the old topics but also gaining competence in the problems of current interest, such as the fractional quantum Hall effect, strongly correlated electron systems, and quantum phase transitions. This book is written to serve the needs of such students. I have attempted in this book to present some of the standard topics in a way that makes it possible to move smoothly to current material. Hence, all the interesting topics are not presented at the end of the book. For example, immediately after the first 50 pages, Anderson's analysis of local magnetic moments is presented as an application of Hartree-Fock theory; this affords a discussion of the relationship with the Kondo model and how scaling ideas can be used to uncloak low-energy physics. As the key problems of current interest in solid state involve some aspects of electron-electron interactions or disorder or both, I have focused on the archetypal problems in which such physics is central. However, only those problems in which there is a consensus view are discussed extensively. In addition, I have placed the emphasis on physics rather than on techniques. Consequently, I focus on a clear presentation of the phenomenology along with a pedagogical derivation of the relevant equations. A key goal of the detailed derivations is to make it possible for the students who have read this book to immediately comprehend research papers on related topics. A key

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omission in this book is magnetism beyond the Stoner criterion and local magnetic moments. This omission has arisen primarily because the topic is adequately treated in the book by Assa Auerbach.

DIVThorough, modern study of solid state physics; solid types and symmetry, electron states, electronic properties and cooperative phenomena. /div

Updated to reflect recent work in the field, this book emphasizes crystalline solids, going from the crystal lattice to the ideas of reciprocal space and Brillouin zones, and develops these ideas for lattice vibrations, for the theory of metals, and for semiconductors. The theme of lattice periodicity and its varied consequences runs through eighty percent of the book. Other sections deal with major aspects of solid state physics controlled by other phenomena: superconductivity, dielectric and magnetic properties, and magnetic resonance.

Solid State Physics opens with the adiabatic approximation to the many-body problem of a system of ions and valence electrons. After chapters on lattice symmetry, structure and dynamics, it then proceeds with four chapters devoted to the single-electron theory of the solid state. Semiconductors and dielectrics are covered in depth and chapters on m

Boojums All the Way Through is a collection of essays that deals in a variety of ways with the problem of communicating modern physics to both physicists and non-physicists. The author is Professor David Mermin, a well-known theoretical physicist, who recently won the first Julius Edgar Lileinfeld



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prize of the American Physical Society 'for his remarkable clarity and wit as a lecturer to nonspecialists on difficult subjects'. David Mermin's wry humour is clearly apparent in most of these articles, but even those that are more serious are characterized by a liveliness and commitment to finding startlingly simple ways of presenting ideas that are traditionally regarded as complex. This book will appeal to physicists at all levels, to mathematicians, scientists and engineers, and indeed to anyone who enjoys reading non-technical accounts of new ways of looking at modern science.

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