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His textbook on solid-state physics, written with N. David Mermin, is a standard text in the field. Awards and honours. Since 1997, he has been a member of the National Academy of Sciences. [citation needed] References

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Solid State Physics. by Neil W. Ashcroft and N. David Mermin
| Jan 2, 1976. 4.3 out of 5 stars 229.

Amazon.com: ashcroft and mermin solid state physics: Books
This was one of the course textbooks for the "Intro to Solid State" physics courses. The other was Condensed Matter Physics by Marder. I found that Ashcroft and Mermin was a bit clearer as a very first introduction than Marder. Marder goes well with A&M, but I think A&M functions better as a stand alone textbook as an introduction.

This book provides an introduction to the field of solid state

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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

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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.

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.

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

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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.

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

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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 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-

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technical accounts of new ways of looking at modern science.

In *It's About Time*, N. David Mermin asserts that relativity ought to be an important part of everyone's education--after all, it is largely about time, a subject with which all are familiar. The book reveals that some of our most intuitive notions about time are shockingly wrong, and that the real nature of time discovered by Einstein can be rigorously explained without advanced mathematics. This readable exposition of the nature of time as addressed in Einstein's theory of relativity is accessible to anyone who remembers a little high school algebra and elementary plane geometry. The

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book evolved as Mermin taught the subject to diverse groups of undergraduates at Cornell University, none of them science majors, over three and a half decades. Mermin's approach is imaginative, yet accurate and complete. Clear, lively, and informal, the book will appeal to intellectually curious readers of all kinds, including even professional physicists, who will be intrigued by its highly original approach.

Now updated—the leading single-volume introduction to solid state and soft condensed matter physics This Second Edition of the unified treatment of condensed matter physics keeps the best of the first, providing a basic foundation in the subject while addressing many recent discoveries. Comprehensive and authoritative, it consolidates the critical

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experiments Provides end-of-chapter problems including computational exercises Includes more than fifty data tables and a detailed forty-page index Offers a solutions manual for instructors Featuring 370 figures and more than 1,000 recent and historically significant references, this volume serves as a valuable resource for graduate and undergraduate students in physics, physics professionals, engineers, applied mathematicians, materials scientists, and researchers in other fields who want to learn about the quantum and atomic underpinnings of materials science from a modern point of view.

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