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INSTRUCTOR: M. S. Dresselhaus. STAFF: Oded Rabin -- Head TA; Room 13-3025 oded@mgm.mit.edu; Marcie Black -- TA assistant; Room 13-3041 mrb@mgm.mit.edu; Yu-Ming Lin -- TA assistant; Room 13-3037 yming@mgm.mit.edu; Laura Doughty -- Support; Room 13-3005 laura@mgm.mit.edu. COURSE TEXTS

6.732 SOLID STATE PHYSICS

M.A. Wahab is the author of Solid State Physics (3.83 avg rating, 275 ratings, 28 reviews, published 2005), Numerical Problems in Solid State Physics (3...

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Solid State Physics. New York, NY: Holt, Rinehart and Winston, 1976. ISBN: 9780030839931. Readings. The readings in this class are linked to specific problem sets. In the table below, the readings are listed by the problem set with which they are associated. Course readings. ASSIGNMENT #

Readings | Physics of Solids I | Physics | MIT OpenCourseWare

Solid State Physics by Wahab M. A. from Flipkart.com. ... authored by M. A. Wahab, is a comprehensive book for students of pure and applied sciences ... An Introduction to Formal Languages and Automata, The Feynman Lectures on Physics, ... by. M.A. Wahab. 3.84 · Rating details · 230 ratings · 24 reviews.

Introduction To Solid State Physics By M.a.wahab

Physics of the Solid State is a peer reviewed journal. We use a single blind peer review format. Our team of reviewers includes over 200 experts, both internal and external (55%), from 10 countries. The average period from submission to first decision in 2019 was 20 days, and that from first decision to acceptance was 30 days. The rejection ...

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Introduces students to the key research topics within modern solid state physics with the minimum of mathematics.

Solid State Physics: An Introduction to Theory presents an intermediate quantum approach to the properties of solids. Through this lens, the text explores different properties, such as lattice, electronic, elastic, thermal, dielectric, magnetic, semiconducting, superconducting and optical and transport properties, along with the structure of crystalline solids. The work presents the general theory for most of the properties of crystalline solids, along with the results for one-, two- and three-dimensional solids in particular cases. It also includes a brief description of emerging topics, such as the quantum hall effect and high superconductivity. Building from fundamental principles and requiring only a minimal mathematical background, the book includes illustrative images and solved problems in all chapters to support student understanding. Provides an introduction to recent topics, such as the quantum hall effect, high-superconductivity and nanomaterials Utilizes the Dirac' notation to highlight the physics contained in the mathematics in an appropriate and succinct manner Includes many figures and solved problems throughout all chapters to provide a deeper understanding for students Offers topics of particular interest to engineering students, such as elasticity in solids, dislocations, polymers, point defects and nanomaterials

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

Volume 43 of Advances in Solid State Physics contains the written versions of most of the plenary and invited lectures of the Spring Meeting of the Condensed Matter Physics section of the Deutsche Physikalische Gesellschaft held from March 24 to 28, 2003 in Dresden, Germany. Many of the topical talks given at the numerous and very lively symposia are also included. They covered an extremely interesting selection of timely subjects. Thus the book truly reflects the status of the field of solid state physics in 2003, and explains its attractiveness, not only in Germany but also internationally.

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.

A must-have textbook for any undergraduate studying solid state physics. This successful brief course in solid state physics is now in its second edition. The clear and concise introduction not only describes all the basic phenomena and concepts, but also such advanced issues as magnetism and superconductivity. Each section starts with a gentle introduction, covering basic principles, progressing to a more advanced level in order to present a comprehensive overview of the subject. The book is providing qualitative discussions that help undergraduates understand concepts even if they can't follow all the mathematical detail. The revised edition has been carefully updated to present an up-to-date account of the essential topics and recent developments in this exciting field of physics. The coverage now includes ground-breaking materials with high relevance for applications in communication and energy, like graphene and topological insulators, as well as transparent conductors. The text assumes only basic mathematical knowledge on the part of the reader and includes more than 100 discussion questions and some 70 problems, with solutions free to lecturers from the Wiley-VCH website. The author's webpage provides Online Notes on x-ray scattering, elastic constants, the quantum Hall effect, tight binding model, atomic magnetism, and topological insulators. This new edition includes the following updates and new features: * Expanded coverage of mechanical properties of solids, including an improved discussion of the yield stress * Crystal structure, mechanical properties, and band structure of graphene * The coverage of electronic properties of metals is expanded by a section on the quantum hall effect including exercises. New topics include the tight-binding model and an expanded discussion on Bloch waves. * With respect to semiconductors, the discussion of solar cells has been extended and improved. * Revised coverage of magnetism, with additional material on atomic magnetism * More extensive treatment of finite solids and nanostructures, now including topological insulators * Recommendations for further reading have been updated and increased. * New exercises on Hall mobility, light penetrating metals, band structure

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