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come out of the course textbook, Ashcroft and Mermin's Solid State  
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Assuming an elementary knowledge of quantum and statistical physics, this book provides a comprehensive guide to principal physical properties of condensed matter, as well as the underlying theory necessary for a proper understanding of their origins. The subject matter covers the principal features of condensed matter physics, but with particular accent on the properties of metal alloys. Relevance to technical applications is recognized.

This book provides a practical approach to consolidate one's acquired knowledge or to learn new concepts in solid state physics through solving problems. It contains 300 problems on various subjects of solid state physics. The problems in this book can be used as homework assignments in an introductory or advanced course on solid state

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physics for undergraduate or graduate students. It can also serve as a desirable reference book to solve typical problems and grasp mathematical techniques in solid state physics. In practice, it is more fascinating and rewarding to learn a new idea or technique through solving challenging problems rather than through reading only. In this aspect, this book is not a plain collection of problems but it presents a large number of problem-solving ideas and procedures, some of which are valuable to practitioners in condensed matter physics.

Assuming an elementary knowledge of quantum and statistical physics, this book provides a guide to principal physical properties of condensed matter, as well as the underlying theory necessary for an understanding of their origins.

Solid state physics, the study and prediction of the fundamental physical properties of materials, forms the backbone of modern materials science and has many technological applications. The unique feature of this text is the MATLAB®-based computational approach with several numerical techniques and simulation methods included. This is highly effective in addressing the need for visualization and a direct hands-on approach in learning the theoretical concepts of solid state physics. The code is freely available to all textbook users.

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state physics much more effective Reinforces the examples discussed within the chapters through the use of end-of-chapter exercises Includes simple analytical and numerical examples to more challenging ones, as well as computational problems with the opportunity to run codes, create new ones, or modify existing ones to solve problems or reproduce certain results

Self-contained coverage of topics ranging from elementary theory of waves and vibrations in strings to three-dimensional theory of waves in thick plates. Over 100 problems.

Gives a unified and systematic presentation of the tensor properties of crystals, and explains their common mathematical basis and the thermodynamical relations between them.

An introduction to one of the fundamental tools in chemical research—spectroscopy and photophysics in condensed-phase and extended systems A great deal of modern research in chemistry and materials science involves the interaction of radiation with condensed-phase systems such as molecules in liquids and solids as well as molecules in more complex media, molecular aggregates, metals, semiconductors, and composites. Condensed-Phase Molecular Spectroscopy and Photophysics was developed to fill the need for a textbook that introduces the basics of traditional molecular spectroscopy with a strong emphasis on condensed-phase systems. It also examines optical processes in extended systems such as metals, semiconductors, and conducting polymers, and addresses the unique optical properties of nanoscale systems. Condensed-Phase Molecular Spectroscopy and Photophysics begins with an introduction to quantum mechanics that sets a solid foundation for understanding the text's subsequent topics, including: Electromagnetic radiation and radiation-matter interactions Molecular vibrations and infrared

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spectroscopy Electronic spectroscopy Photophysical processes and light scattering Nonlinear and pump-probe spectroscopies Electron transfer processes Each chapter contains problems ranging from simple to complex, enabling readers to gradually build their skills and problem-solving abilities. Written for upper-level undergraduate and graduate courses in physical and materials chemistry, this text is uniquely designed to equip readers to solve a broad array of current problems and challenges in chemistry.

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

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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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