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There are certainly faults in the homeworks (and several solutions that could have been obtained much more directly); but in general, I have tried to correct any any mistakes noticed by the grader. The assignments were rather creative (and difficult) and generally did not come out of the course textbook, Ashcroft and Mermin's Solid State Physics.

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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

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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 ...

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symmetry. The book can be used in conjunction with a survey course in solid state physics, or as the basis of a first graduate-level course. It can be read by anyone who has had basic grounding in quantum mechanics.

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 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

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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.

Describing the fundamental physical properties of materials used in electronics, the thorough coverage of this book will facilitate an understanding of the technological processes used in the fabrication of electronic and photonic devices. The book opens with an introduction to the basic applied physics of simple electronic states and energy levels. Silicon and copper, the building blocks for many

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electronic devices, are used as examples. Next, more advanced theories are developed to better account for the electronic and optical behavior of ordered materials, such as diamond, and disordered materials, such as amorphous silicon. Finally, the principal quasi-particles (phonons, polarons, excitons, plasmons, and polaritons) that are fundamental to explaining phenomena such as component aging (phonons) and optical performance in terms of yield (excitons) or communication speed (polarons) are discussed.

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

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

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