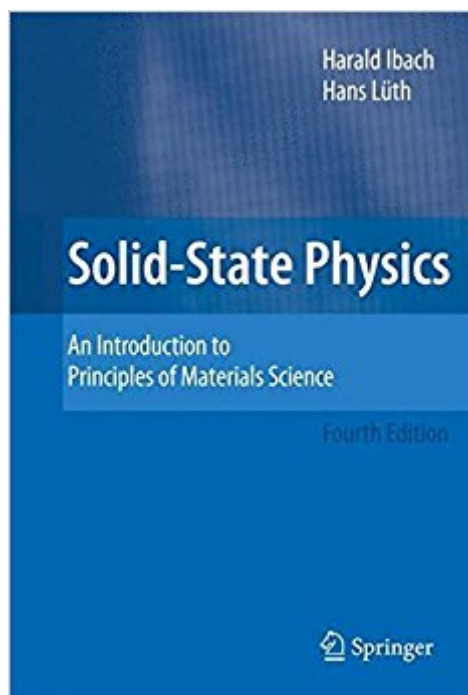




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Solid-State Physics: An Introduction To Principles Of Materials Science (Advanced Texts In Physics (Paperback))



Synopsis

This new edition of the well-received introduction to solid-state physics provides a comprehensive overview of the basic theoretical and experimental concepts of materials science. Experimental aspects and laboratory details are highlighted in separate panels that enrich text and emphasize recent developments. Notably, new material in the third edition includes sections on important new devices, aspects of non-periodic structures of matter, phase transitions, defects, superconductors and nanostructures. Students will benefit significantly from solving the exercises given at the end of each chapter. This book is intended for university students in physics, materials science and electrical engineering. It has been thoroughly updated to maintain its relevance and usefulness to students and professionals.

Book Information

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This new edition of the popular introduction to solid-state physics provides a comprehensive overview on basic theoretical and experimental concepts of material science. Additional sections

"... An excellent mix of concepts, theoretical arguments, and discussion of modern experiments - all at an introductory level ... Full of illustrations, photographs, schematic diagrams of experimental techniques, and graphs of results..."
-- American Journal of Physics

This text is very concise and made for the student or professional who want to get to the theory fast and keep the key concepts and derivations fresh in his mind. It may not be what some expect, like a Kittel type of book, full of pictures and conceptualizations. It is really meant for someone who has been through a properties oriented and somewhat encyclopedic book or course, and now wants to know the theory, derive and connect the dots and have a more analytical understanding of solid state problems.

No clear explanation, no explicit logic, just hand-waving statements and experimental data. If you don't wanna know how the physics ideas are reached, this book is fine. Or if you wanna develop the theory of solid state matter yourself totally independently, this book would definitely not deprive your happiness of thinking. If you really really want this book, don't buy it--I can give mine to you for free. And I would be grateful to be provided a chance to get rid of it.

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