



Solid State Physics: From the Material Properties of Solids to Nanotechnologies (Essentials of Physics Series)

By David Schmool

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Solid State Physics provides a broad introduction to some of the principal areas of the physical phenomena in solid materials and is aimed broadly at undergraduate students of physics and engineering related subjects. The physical properties of materials are intimately related to the crystalline symmetry of atoms as well as the atomic species present. This includes the electronic, mechanical, magnetic and optical properties of all materials. These subjects are treated in depth and provide the reader with the tools necessary for an understanding of the varied phenomena of materials. Particular emphasis is given to the reaction of materials to specific stimuli, such as the application of electric and magnetic fields. Nanotechnologies are based on the formation of nano-sized elements and structures. The final chapter of the book provides a broad introduction to the topic and uses some of the main tools of solid state physics to explain the behavior of nanomaterials and why they are of importance for future technologies.

FEATURES:

- Provides a broad introduction to the principal areas of the physical phenomena in solid materials
- Includes the electronic, mechanical, magnetic and optical properties of all materials
- Explains the behavior of nanomaterials and why they are of importance for future technologies

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About the Author

David Schmool completed his doctoral studies at the University of York. He has held research posts in several universities in the UK, Italy, Spain, and France.

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