



Solid State Physics

By J. S. Blakemore

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Now available in paperback, Solid State Physics is designed to serve as a first text for a course on the physics of solids. 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: super-conductivity, dielectric and magnetic properties, and magnetic resonance. The book does not require a formal knowledge of quantum mechanics, and includes over 100 problems of varied length and difficulty. It will also be useful to chemists, material scientists, and electrical engineers who need an introduction to the subject for self study.

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