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Solid State Devices



Synopsis

Though semiconductors are used for diverse applications, their physical theories are still very complex. This text aims at reducing the complexities of solid state theories, helping them to grasp the subject with greater ease. The text skillfully explains the crystal structures of Group IV-V elements, theory of energy bands in solids, Fermi-Dirac distribution, direct and indirect gap materials, and electrons present in semiconductors. The book also deals with Hall effect, P-N junction diodes, Zener and avalanche breakdowns, Schottky-barrier diodes, bipolar junction transistor and MOS field-effect transistors. Designed as a textbook for the undergraduate students of electrical engineering, electronics engineering, and Computer Science and IT, this book is also useful for the undergraduate and postgraduate students of Physics and electronics.

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