

### Modern Physics: The Quantum Physics of Atoms, Solids, and Nuclei

Robert L. Sproull, W. Andrew Phillips



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Introduces the basic idea of quantum physics in order to explain structure of atoms, molecules, solids, and nuclei. Stresses practical applications and topics of particular interest in electrical engineering, computer science, and applied physics. Allows for a quantitative treatment of topics formerly accorded merely a qualitative treatment; e.g., binding energy of Helium atom, energies of electrons in solids, ground state of the deuteron, etc. Coverage is in direct proportion to a topic's technological importance. New edition provides updated coverage of semiconductor devices and particle physics, the deuteron, and fission reactors. Treatment of atoms now includes X-Ray photoemission spectra and lasers.

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