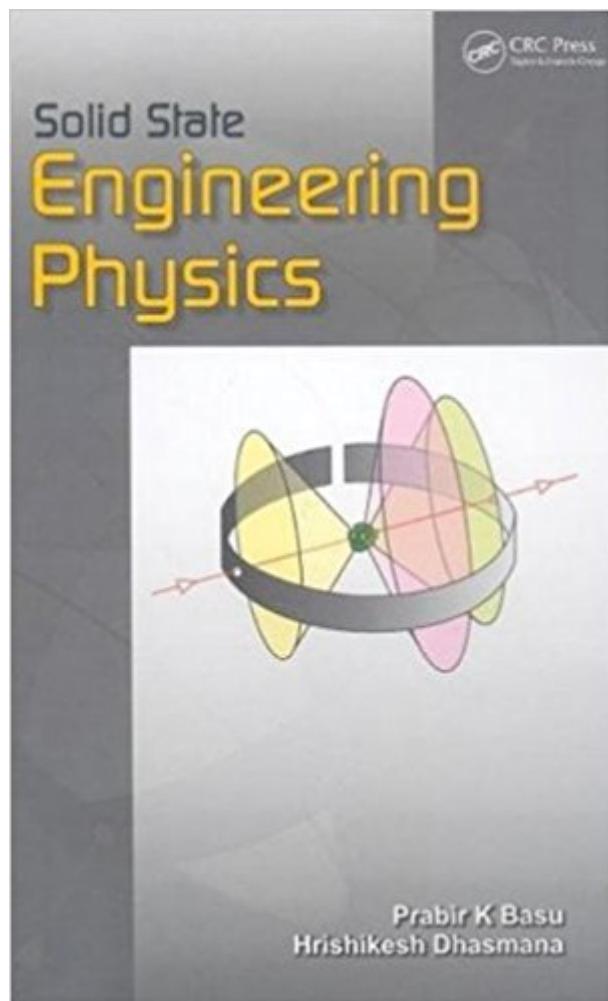


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Solid State Engineering Physics



Synopsis

This text first deals with the crystal structure of new materials, discussing point defects both qualitatively and quantitatively. Focusing on quantum physics, the next chapter examines the dual nature of particles and the Schrodinger equation. The authors then cover the free electron theory of metals and semiconductors. They also study the details of photoconductors and photovoltaic cells as well as the magnetization factor for various magnetic materials, which offers an understanding of the controlling parameter responsible for the origin of magnetization within the material. The final chapter focuses on the exciting phenomenon of superconductivity.

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It's okay is a bit of a stretch. This book is well composed, but not well written. This is really the fault of the editors who didn't have anyone proof read it apparently. There were lots of misspellings, awkward phrasing, repetition of words, etc. There were also errors in the simple trig that they did in chapter 1. They claimed that cosine is the adjacent divided by the hypotenuse. Get something better if you're interested in solid state physics unless they decide to fix the grammatical errors in a new edition.

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The Solid State: An Introduction to the Physics of Crystals for Students of Physics, Materials

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