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ELECTRONIC PROPERTIES OF MATERIALS

The book in PDF Format with title *Electronic Properties of Materials* Fourth Edition by Rolf E. Hummel is available to download for free and Download Link is at the end of the article. Preface to the Fourth Edition: The present textbook, which introduces my readers to elements of solid state physics and then moves on to the presentation of electrical, optical, magnetic, and thermal properties of materials, has been in print for 25 years, i.e. since 1985 when the first edition appeared.

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This book on electrical, optical, magnetic, and thermal properties of

materials differs from other introductory texts in solid-state physics. First, it is written for engineers, particularly materials and electrical engineers, who want to gain a fundamental understanding of semiconductor devices, magnetic materials, lasers, alloys, and so forth. Second, it stresses concepts rather than mathematical formalism, which should make the presentation relatively easy to read.

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This carefully revised third edition on the electrical, optical, magnetic, and thermal properties of materials stresses concepts rather than mathematical formalism. Many examples from engineering practice provide an understanding of common devices and methods.

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The book has a very simplified description for Electronic Properties of Materials. It does not go too much in depth in derivations etc. But at the same time it is good enough to give an overall flavor for electronic, optical, magnetic properties of materials. This book is good for engineers.

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