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Problems after each chapter

The present book focuses on a broad domain of electrical engineering materials in the undergraduate level with some aspects to be taught in the post graduate level, for which a co-ordination has been made according to the syllabus of Indian universities in the field of material science. This book has dealt

with fundamentals of the subject matter in a comprehensive way along with emphasis on the different devices in the field of material science. Emphasis has been focused so that the students can have a comprehensive knowledge on the subject matter. Contents? Introduction ? Magnetic Materials ? Semiconductors ? Semiconductors ? Insulating Materials.

A Textbook for the students of B.Sc.(Engg.), B.E., B.Tech., AMIE and Diploma Courses. A new chapter on ""Semiconductor Fabrication Technology and Miscellaneous Semiconductor Devices"" had been included and additional self-assessment questions with answers and additional worked examples had been provided at the end of the BOOK.

Principles of Electrical Engineering Materials and Devices has been developed to bridge the gap between traditional electronic circuits texts and semiconductor texts

This is a book for electrical and electronic engineers, not for materials scientists. Every explanation is rendered in its simplest and clearest form and as many relevant examples are included as possible. At every point, the author makes clear the direct relevance of every topic to the reader's main course of study: electrical and electronic engineering. The central theme is that the type of bonding in a solid not only controls its electrical properties but also, and just as directly, its mechanical properties and how things are made from it. Thus the reason why a copper wire can conduct electricity is exactly the same reason it can be drawn into a wire in the first place. The reason why a piece of porcelain does not conduct electricity is the same as why it cannot be rolled into its final shape as copper could and thus has to be made directly. This common origin of electrical and mechanical properties dictates the structure of the book.

Very Good, No Highlights or Markup, all pages are intact.

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