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The book discusses the properties, characteristics, applications and limitations of engineering materials. Its emphasis is on materials available locally. It also incorporates useful data from the manufacturer's catalogues. The book gives a comprehensive coverage of the subject, with numerous illustrations for easy understanding. ISI standards are quoted wherever applicable. The book will serve as an excellent text for diploma, Degree and AMIE Students. It will also be a valuable reference book for industrial organizations.

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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 ? Semiconductor Devices ? Superconductors ? 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.

An informal and highly accessible writing style, a simple treatment of mathematics, and clear guide to applications, have made this book a classic text in electrical and electronic engineering. Students will find it both readable and comprehensive. The fundamental ideas relevant to the understanding of the electrical properties of materials are emphasized; in addition, topics are selected in order to explain the operation of devices having applications (or possible future applications) in engineering. The mathematics, kept deliberately to a minimum, is well within the grasp of a second-year student. This is achieved by choosing the simplest model that can display the essential properties of a phenomenon, and then examining the difference between the ideal and the actual behaviour. The whole text is designed as an undergraduate course. However most individual sections are self contained and can be used as background reading in graduate courses, and for interested persons who want to explore advances in microelectronics, lasers, nanotechnology and several other topics that impinge on modern life.

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

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

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

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