

Principles Of Electrical Engineering Materials And Devices

Electronic Engineering Materials and Devices An Introduction to Electrical Engineering Materials A Textbook of Electrical Engineering Materials Principles of Electrical Engineering Materials and Devices ELECTRICAL AND ELECTRONICS ENGINEERING MATERIALS A Course in Electrical Engineering Materials Properties of Electrical Engineering Materials Electrical Engineering Materials, Tables and Properties Electrical Engineering Materials, 1/e Electrical Engineering Materials John Allison C S Indulkar R.K. Rajput Safa Kasap BANERJEE, G.K. R.K. Rajput Adrianus Jacobus Dekker T. K. Basak Adrianus J. Dekker R. K. Shukla Er. R.K. Rajput Bhadra Prasad Pokharel Yu Koritsky Gian Chand Jain Rakesh Dogra A. H. Qureshi Melbourne Technical College T. K. Basak Frank Gordon Albert Sublet N. Alagappan

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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

this text offers comprehensive discussions of topics which are important to both electrical engineering and materials science students the chapters are designed so that instructors can teach out of sequence or skip topics if desired

the book has been written in a lucid and systematic manner with necessary mathematical derivations illustrations examples and practise exercises providing detailed description of the materials used in electrical and electronics engineering and their applications beginning with the atomic structure of the materials the book deals with the behaviour of dielectrics and their properties under the influence of dc and ac fields it covers the magnetic properties of materials including soft and hard magnetic materials and their applications the text discusses fabrication techniques and the basic physics involved in the operation of the semiconductors junction transistors and rectifiers it includes detailed description of optical properties of the materials optical materials photovoltaic materials and the materials used in lasers and optical fibres it also incorporates the latest information on the materials used for the direct energy conversion and fuel cell technologies this book is primarily intended for undergraduate students of electrical engineering and electrical and electronics engineering key features contains sufficient numbers of solved numerical examples includes a set of review questions and a list of references at the end of each chapter provides a set of numerical problems in some of the chapters wherever required contains more than 150 diagrammatic illustrations for easy understanding of the concepts

covers the area of quantum mechanics that leads to the understanding of electrical behaviour of materials this book clarifies that the conductivity of material is determined by mobile charge carrier concentration and drift mobility and the reasons for higher conductivity in metals and lower conductivity in semiconductors

this book focuses on a broad spectrum of electrical engineering materials at the undergraduate and postgraduate levels for which a co ordination has been made according to the syllabus of indian universities in the field of materials science it deals with fundamentals of the subject matter in a comprehensive way with emphasis on different devices in the field of materials science the text includes new developments in the subject elaborating electronic devices and their applications the subject is particularly covered and explained lucidly in areas like magnetic materials semiconductors semiconductor devices superconductors and insulating materials jacket

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