



material for an engineering product / application, we should have the knowledge of Electrical properties of materials.

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If you look at the inductor, the "j" can be applied to the voltage to align it with the current hence "j" is in the numerator for inductive reactance and j is in the denominator for capacitive reactance.

*Theory question about "j" imaginary unit (AC circuit ...*

Engineering materials refers to the group of materials that are used in the construction of manmade structures and components. The primary function of an engineering material is to withstand applied loading without breaking and without exhibiting excessive deflection.

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*Research Fellow, Materials Science/Electrical Engineering ...*

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Electrical engineering is an engineering discipline concerned with the study, design and application of equipment, devices and systems which use electricity, electronics, and electromagnetism.

*Electrical engineering - Wikipedia*

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Electrical Engineering Materials 1 Edition (English, Paperback, A. J. Dekker)

Problems after each chapter

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.

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.

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.

The only available, comprehensive reference on dielectric phenomena in solids.

This third edition of what has become a modern classic presents a lively overview of Materials Science which is ideal for students of Structural Engineering. It contains chapters on the structure of engineering materials, the determination of mechanical properties, metals and alloys, glasses and ceramics, organic polymeric materials and composite materials. It contains a section with thought-provoking questions as well as a series of useful appendices. Tabulated data in the body of the text, and the appendices, have been selected to increase the value of Materials for engineering as a permanent source of reference to readers throughout their professional lives. The second edition was awarded Choice's Outstanding Academic Title award in 2003. This third edition includes new information on emerging topics and updated reading lists.

Engineering Field Theory focuses on the applications of field theory in gravitation, electrostatics, magnetism, electric current flow, conductive heat transfer, fluid flow, and seepage. The manuscript first ponders on electric flux, electrical materials, and flux function. Discussions focus on field intensity at the surface of a conductor, force on a charged surface, atomic properties, doublet and uniform field, flux tube and flux line, line charge and line sink, field of a surface charge, field intensity, flux density, permittivity, and Coulomb's law. The text then takes a look at gravitation and fluid flow, magnetic flux, and electric potential. Topics include capacitance with mixed dielectric, capacitance, potential function, electric intensity, magnetization, field intensity, current loop and magnetic dipole, magnetic field of an electric current, velocity, pressure, gravitational field intensity, and gravitational constant. The book ponders on experimental techniques, numerical methods, and electromagnetic induction, including Hall effect, magnetic energy, method of construction, computer techniques, and space diagram. The publication is a highly recommended source material for engineers and researchers wanting to study further engineering field theory.

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