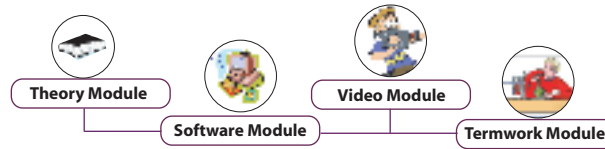


Electrical Engineering Material



Introduces, Global e-Learning System in Education & Training in the form of Learning Resources with Computer Aided Instructions



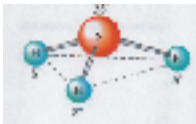
System Requirement:- IBM-PC Compatible Min P-III with Window-OS, 128 MB RAM/Multimedia Kit

Theory module

Features : Theory, Figures, Photographs, Animations with Controller, Highlighter Tool, Note Creation Facility, Systematic Page Navigation, Printing Facility.

List of Topics

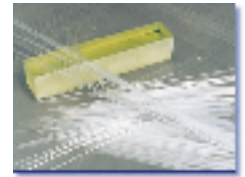
Dielectric Properties of Insulating Materials



Static Field : Dielectric Parameter, Dielectric Constant, Dipole Moment, Polarization, Mechanisms of Polarization, Piezoelectric, Pyroelectric & Ferroelectric Materials.

Optical Properties of Materials

Photoelectric Emission, Photo Conductivity, Photo-electric Cells, Photoemissive Cells, Photo-conductive Cells, Photo-voltaic Cells, Materials for Photo-voltaic Cells-Power Generation.



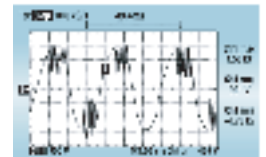
Insulating Materials, their Properties & Application



Introduction, Characteristics of Good Insulating Material, Classification, Solid Insulating Materials: Paper Pressboard, Fibrous Materials, Impregnating Coating Filling, Ceramics, Mica, Asbestos, Liquid Insulating Materials, Insulating Gases.

Dielectric Breakdown

Introduction, Breakdown Voltage, Breakdown Strength, Dielectric Breakdown of Gases, Dielectric Breakdown of Liquids, Dielectric Breakdown of Solids.



Magnetic Materials



Magnetic Parameters, Permeability, Magnetic Susceptibility, Magnetic Moment, Magnetization, Orbital Magnetic Dipole Moment, Angular Momentum & Induced Dipole Moment of a Simple Model, Classification of Magnetic Materials, Diamagnetism, Origin of Permanent Magnetic Dipole Moment, Paramagnetism, Ferromagnetism, Ferromagnetic Behavior.

Conducting Materials

Properties of Conductor, Electrical Conducting Materials, High Conductivity Materials, its Characteristics, Different Types of Solders, Methods of Soldering & Brazing, Metals & Alloys for Different Types of Fuses, Thermal Bimetal, Thermocouple Materials, Super Conducting Materials, Applications of Superconductivity.



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