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This book will give readers a thorough understanding of the fundamentals of power system analysis and their applications. Both the basic and advanced topics have been thoroughly explained and supported through several solved examples. Important Features of the Book: Load Flow and Optimal System Operation have been discussed in detail.Automatic Generation Control (AGC) of Isolated and Interconnected Power Systems have been discussed and explained clearly.AGC in Restructured Environment of Power System has been Introduced.Sag and Tension Analysis have been discussed in detail.Contains over 150 illustrative examples, practice problems and objective-type questions, that will assist the reader.With all these features, this is an indispensable text for graduate and postgraduate electrical engineering students. GATE, AMIE and UPSC engineering services along with practicing engineers would also find this book extremely useful

A textbook of Electrial Technology.In this edition,two new chapters have ben aded namely Rating & Service Capacity'and distribution Automation .The First chapter will be usefu to degree/diploma students underdoing their first course in Electrical Drives.Italso contains many solved problems for the benefit of students.Another new chapter'istribution Automation' is a latest development in the field of Electrical Power System Engineering.Tillrecent years,stress was given on Generation and Transmission.

The subject of power systems has assumed considerable importance in recent years and growing demand for a compact work has resulted in this book. A new chapter has been added on Neutral Grounding.

In A Clear And Systematic Manner, This Book Presents An Exhaustive Exposition Of The Various Dimensions Of Electrical

Power Systems. Both Basic And Advanced Topics Have Been Thoroughly Explained And Illustrated Through Solved Examples.Salient Features * Fundamentals Of Power Systems, Line Constant Calculations And Performance Of Overhead Lines Have Been Discussed * Mechanical Design Of Lines, Hvdc Lines, Corona, Insulators And Insulated Cables Have Been Explained * Voltage Control, Neutral Grounding And Transients In Power Systems Explained * Fault Calculation, Protective Relays Including Digital Relays And Circuit Breakers Discussed In That Order * Power Systems Synchronous Stability And Voltage Stability Explained * Insulation Coordination And Over Voltage Protection Explained * Modern Topics Like Load Flows, Economic Load Dispatch, Load Frequency Control And Compensation In Power System Nicely Developed And Explained Using Flow Charts Wherever Required * Zbus Formulation, Power Transformers And Synchronous Machines As Power System Elements Highlighted * Large Number Of Solved Examples, Practice Problems And Multiple Choice Questions Included. Answers To Problems And Multiple-Choice Questions ProvidedWith All These Features, This Is An Invaluable Textbook For Undergraduate Electrical Engineering Students Of Indian And Foreign Universities. Amie, Gate, All Competitive Examination Candidates And Practising Engineers Would Also Find This Book Very Useful.

Annotation In a clear and systematic manner, this book presents an exhaustive exposition of the various dimensions of electrical power systems. Both basic and advanced topics have been thoroughly explained and illustrated through solved examples.Salient Features *Fundamentals of power systems, line constant calculations and performance of overhead lines have been discussed *Mechanical design of lines, HVDC lines, Corona, Insulators and Insulated cables have been explained as well as Voltage control, Neutral grounding and Transients in power systems. *Fault calculation, protective relays including digital relays and circuit breakers discussed in that order. *Power systems synchronous stability and voltage stability explained. *Insulation coordination and over-voltage protection explained. *Modern topics like Load Flows, Economic Load Dispatch, Load Frequency Control and Compensation in Power System nicely developed and explained using flow charts wherever required. *Zbus formulation, power transformers and synchronous machines as power system elements highlighted. *Large number of solved examples, practice problems and multiple choice questions included. Answers to problems and multiple-choice questions provided.With all these features, this is an invaluable text book for undergraduate electrical engineering students of Indian and foreign universities. AMIE, GATE, all competitive examination candidates and practising engineers would also find this book very useful.Contents ?Fundamentals of Power Systems?Line Constant Calculations?Capacitance of Transmission Lines?Performance of Lines?High Voltage d.c. Transmission?Corona?Mechanical Design of Transmission Lines?Overhead Line Insulators?Insulated Cables?Voltage Control?Neutral Grounding?Transients in Power Systems?Symmetrical Components and Fault Calculations?Protective Relays?Circuit Breakers?Insulation Coordination and Over-voltage Protection?Power System

Synchronous Stability?Load Flows?Economic Load Dispatch?Load Frequency Control?Compensation in Power System?Power System Voltage Stability?Objective Questions?Answers to Objective Questions?Answers to Problems?Index-After the book starts with a general background in matrix, determinant and vector calculus, some very important aspects in mathematics such as Dirac Delta Function, Analyticity, Orthogonality, Singularity, etc., are described that are not covered separately in most of the books. The most important 'special functions' such as Hermite, Legendre, Laguerre, Chebyshev, are discussed in terms of their applications in quantum mechanics to bring interest in this subject.Finally, starting with the Fourier series, the important 'integral transforms', such as Fourier, Laplace and Hilbert are described with an inclination towards 'applications' for both undergraduate and postgraduate students in various branches of engineering as well as for readers doing postgraduate studies in general and applied sciences.Although 'tensor analysis' is not taught in many undergraduate courses; a short chapter is included at the end to briefly introduce the subject. This book is designed to evoke interests among the students as well as among the teachers on how to tackle various mathematical issues involved in the field of applications in order to get better mathematical insights and flavour.Contents ?Matrix Algebra ?Determinants ?Vector Calculus (Gradient, Divergence and Curl) ?Gauss, Green Stoke's Theorem ?Dirac Delta Function ?Differential Calculus ?Frobenius Method ?Convergence ?Orthogonality ?Wronskian ?Analytic Function ?Taylor Series ?Laurent Expansion ?Singularities ?Calculus of Residues (Cauchy Reimann) ?Hermite Polynomials.

"Basic Electrical Engineering" is written exclusively for B. Tech. Second semester students of various branches as per the revised syllabus of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (RTMNU, Nagpur). Each of the important topics that help the student in learning the principles of Electrical Engineering more effectively have been included.

This comprehensive book with a blend of theory and solved problems on Basic Electrical Engineering has been updated and upgraded in the Second Edition as per the current needs to cater undergraduate students of all branches of engineering and to all those who are appearing in competitive examinations such as AMIE, GATE and graduate IETE. The text provides a lucid yet exhaustive exposition of the fundamental concepts, techniques and devices in basic electrical engineering through a series of carefully crafted solved examples, multiple choice (objective type) questions and review questions. The book covers, in general, three major areas: electric circuit theory, electric machines, and measurement and instrumentation systems.

This Book extensive pruning of the solved Examples in the text.Majority of the old examples have been replaced by questions set in the latest examination papers of different engineering colleges and technical institutions.

For Mechnaical Enggineering Students of Indian Universities.It is also available in 4 Individual Parts

A multicolor edition of Vol.II of A Textbook of Electrical Technology to keep pace with the ever-increasing scope of es-

sential and morden technical information,the syllabi are frequently revised.This often result into compressing established facts to accommodate recent information in the syllabi.Fields of power-electronics and industrial power-conditioners have grown considerably resulting into changed priority of topics related to electrical machines.Switched reluctance-motors tend to threaten the most popular squirrel-cage induction motors due to their increased ruggedness,better performance including controllability and equal ease with which they suit rotary as well as linear-motion-applications.

For the first time in India, we have a comprehensive introductory book on Basic Electrical Engineering that caters to undergraduate students of all branches of engineering and to all those who are appearing in competitive examinations such as AMIE, GATE and graduate IETE. The book provides a lucid yet exhaustive exposition of the fundamental concepts, techniques and devices in basic electrical engineering through a series of carefully crafted solved examples, multiple choice (objective type) questions and review questions. The book covers, in general, three major areas: electric circuit theory, electric machines, and measurement and instrumentation systems.

About the Book: The book has been designed to cover all relevant topics in B.E. (Mechanical/Metallurgy/Material Science/Production Engineering), M.Sc. (Material Science), B.Sc. (Honours), M.Sc. (Physics), M.Sc. (Chemistry), AMIE and Diploma students. Students appearing for GATE, UPSC, NET, SLET and other entrance examinations will also find book quite useful. In Nineteen Chapters, the book deals with atomic structure, the structure of solids; crystal defects; chemical bonding; diffusion in solids; mechanical properties and tests of materials; alloys, phase diagrams and phase transformations; heat treatment; deformation of materials; oxidation and corrosion; electric, magnetic, thermal and optical properties; semiconductors; superconductivity; organic materials; composites; and nanostructured materials. Special features: Fundamental principles and applications are discussed with explanatory diagrams in a clear way. A full coverage of background topics with latest development is provided. Special chapters on Nanostructured materials, Superconductivity, Semiconductors, Polymers, Composites, Organic materials are given . Solved problems, review questions, problems, short--question answers and typical objective type questions along with suggested readings are given with each chapter. Contents: Classification and Selection of Materials Atomic Structure and Electronic Configuration Crystal Geometry, Structure and Defects Bonds in Solids Electron Theory of Metals Photoelectric Effect Diffusion in Solids Mechanical Properties of Materials and Mechanical Tests Alloy Systems, Phase Diagrams and Phase Transformations Heat Treatment Deformation of Materials Oxidation and Corrosion Thermal and Optical Properties of Materials: Thermal Properties; Optical Properties Electrical and Magnetic Properties of Materials Semiconductors Superconductivity and Superconducting Materials Organic Materials: Polymers and Elastomers Composites Nanostructured Materials.

Harlequin Heartwarming brings you a collection of four new wholesome

reads, available now! This Harlequin Heartwarming box set includes: CATCH A FALLEN STAR Grace Note Records by Amy Vastine Hitting rock bottom has landed country star Boone Williams in the middle of his worst nightmare: a recording studio on a horse therapy farm. He has no interest in dealing with his problems or writing a new album. And he's definitely not interested in the gorgeous, feisty mom of one of Helping Hooves' young clients... CHRISTMAS IN THE COVE by Carol Ross With harrowing coast guard rescues, drug smugglers afoot, a Christmas contest under sabotage, old family secrets, friendships in question and love hanging in the balance, it's going to be a holiday to remember in Pacific Cove for Aubrey Wynn and Lieutenant Commander Eli Pelletier. MEET ME ON THE MIDWAY Starlight Point Stories by Amie Denman Evie Hamilton has big plans for Starlight Point, her family's amusement park. But Scott Bennett, the new fire inspector, won't sign off unless the hotel renovation plans are up to his standards. Evie doesn't have time for these delays, and if she doesn't keep her heart in check, she'll fall head over heels for the man who could ruin her plans...-for good! SILVER RIVER SECRETS by Linda Hope Lee Ten years ago, a horrible crime drove Lacey Morgan and Rory Dalton apart. Now that Lacey is back in Silver River, she's determined to find out what really happened that day. But discovering the truth might not be enough to bury the past...and move on with Rory. Join HarlequinMyRewards.com to earn FREE books and more. Earn points for all your Harlequin purchases from wherever you shop.

Electrical Technology: Machines and Measurements is the second volume of the book on Electrical Technology and all undergraduate students of electrical and electronics engineering shall find this indispensible. This book covers electric machines including AC and DC machines, various electrical instruments and measurements. The concepts are clearly explained and are supplemented with relevant examples in every chapter.

Technical Report from the year 2018 in the subject Electrotechnology, grade: 1.0, , course: Electrical, language: English, abstract: In this book, various concepts of the electrical theorems are arranged logically and explained in a simple reader-friendly language. For the proper understanding of the theorems, a large number of problems with their step-by-step solutions are discussed to enhance the conceptual clarity. The book is very simple and easy to understand. The novelty of this book is that the title of the chapter is given by the name of Scientist those who invented the theorems. And an autobiography of each scientist is given at the beginning of each chapter. The multiple choice objective type questions with answers are also given at the end of this book; this will help the students for the preparation of competitive examinations and also for deep understanding. The prerequisite of the book is that the knowledge of physics and basic mathematics is essential. The objective of this book is to understand the principles of electrical circuit theorems. The electric circuit theorems are always beneficial to find voltage and currents in multi-loop circuits. These fundamental theorems include the basic theorems like Kirchhoff's laws, Superposition theorem, Tellegen's theorem, Norton's theorem, Maximum power transfer theorem and Thevenin's

theorems. Other groups of network theorems which are mostly used in the circuit analysis process which include Compensation theorem, Substitution theorem, Reciprocity theorem, Millman's theorem and Miller's theorems. In this book, various concepts of the electrical theorems are arranged logically and explained in a simple reader-friendly language. For the proper understanding of the theorems, a large number of problems with their step-by-step solutions are discussed to enhance the conceptual clarity. The book is very simple and easy to understand. The novelty of this book is that the title of the chapter is given by the name of Scientist those who invented the theorems. And an autobiography of each scientist is given at the beginning of each chapter. The multiple choice objective type questions with answers are also given at the end of this book; this will help the students for the preparation of competitive examinations and also for deep understanding. The first chapter covers the fundamentals of electrical engineering, which include voltage current, temperature effect on resistance, specific resistance and effect of temperature on temperature coefficient.

An extensive and easy--to-read guide covering the fundamental concepts of electrical machines, highlighting transformers, motors, generators and magnetic circuits. It provides in-depth discussion on construction, working principles and applications of various electrical machines. The design of transformers, functioning of generators and performance of induction motors are explained through descriptive illustrations, step-by-step solved examples and mathematical derivations. A separate chapter on special purpose machines offers important topics such as servomotors, brushless motors and stepper motors, which is useful from industrial perspective to build a customized machine. Supported by 400 solved examples, 600 figures, and more than 1000 self-assessment exercises, this is an ideal text for one or two-semester undergraduate courses on electrical machines under electrical and electronics engineering.

Electrical Technology will serve the needs of undergraduate students of engineering. This first volume consists of 30 chapters and introduces the fundamentals of the subject through a discussion on system of units and fundamentals of electrons and gradually moves to advanced topics such as Complex Algebra, Fourier Series, Circuits and Networks, which helps engineering students understand the subject better and build a concrete foundation of their concepts.

This book reflects the latest research trends, methods and experimental results in the field of electrical and information technologies for rail transportation, which covers abundant state-of-the-art research theories and ideas. As a vital field of research that is highly relevant to current developments in a number of technological domains, the subjects it covered include intelligent computing, information processing, communication technology, automatic control, etc. The objective of the proceedings is to provide a major interdisciplinary forum for researchers, engineers, academicians and industrial professionals to present the most innovative research and development in the field of rail transportation electrical and information technologies. Engineers and researchers in

academia, industry and government will also explore an insightful view of the solutions that combine ideas from multiple disciplines in this field. The volumes serve as an excellent reference work for researchers and graduate students working on rail transportation and electrical and information technologies.

A Textbook on Electrical Technology

Fundamentals of Electrical Engineering and Electronics is a useful book for undergraduate students of electrical engineering and electronics as well as B.Sc. Electronics. The book discusses concepts such as Network Analysis, Capacitance, Electromagnetic Induction, Motors Circuits and Diodes in an easy to relate and thereby understand manner. Designed in accordance with the syllabi of most major universities, the book is an essential resource for anyone aspiring to learn the fundamentals and teaches students much about the subject itself. A book which has seen, foreseen and incorporated changes in the subject for more than 50 years, it continues to be one of the most sought after texts by the students.