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Basic Electrical Engineering Uday A Bakshi, Varsha U Bakshi, 2013 **Electrical Technology** Uday A. Bakshi, Dr. Mayuresh V. Bakshi, 2020-11-01 The book covers all the aspects of Electrical Technology for undergraduate course Various concepts of electrical engineering like power and energy measurement tariff and power factor improvement illumination single phase and three phase transformers single phase and three phase induction motors alternators d c machines special purpose motors and solid state speed control of d c and a c drives are explained in the book with the help of comprehensive approach The book starts with review of basic concepts of electrical engineering Then it explains electrical power measurement methods and electrical energy measurement methods The book also explains types of tariffs and power factor improvement methods It includes all the details of illumination schemes The book further explains single phase and three phase transformers Then book provides the detailed discussion of three phase and single phase induction motors d c generators and motors and synchronous generators The discussion of special purpose motors such as servomotors stepper motors and universal motor is also provided in support Finally the book incorporates the discussion of various power devices such as power diodes SCR DIAC Triac IGBT Power MOSFETs and then continues to discuss the solid state speed control methods for d c and a c electrical drives The book uses plain simple and lucid language to explain each topic The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy The variety of solved examples is the feature of this book The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting *Optimal Coordination of Power Protective Devices with Illustrative Examples* Ali R. Al-Roomi, 2021-11-30 *Optimal Coordination of Power Protective Devices with Illustrative Examples* Provides practical guidance on the coordination issue of power protective relays and fuses Protecting electrical power systems requires devices that isolate the components that are under fault while keeping the rest of the system stable *Optimal Coordination of Power Protective Devices with Illustrative Examples* provides a thorough introduction to the optimal coordination of power systems protection using fuses and protective relays Integrating fundamental theory and real world practice the text begins with an overview of power system protection and optimization followed by a systematic description of the essential steps in designing optimal coordinators using only directional overcurrent relays Subsequent chapters present mathematical formulations for solving many standard test systems and cover a variety of popular hybrid optimization schemes and their mechanisms The author also discusses a selection of advanced topics and extended applications including adaptive optimal coordination optimal coordination with multiple time current curves and optimally coordinating multiple types of protective devices *Optimal Coordination of Power Protective Devices* Covers fuses and overcurrent directional overcurrent and distance relays Explains the relation between fault current and operating time of protective relays Discusses performance and design criteria such as sensitivity speed and simplicity

Includes an up to date literature review and a detailed overview of the fundamentals of power system protection Features numerous illustrative examples practical case studies and programs coded in MATLAB programming language Optimal Coordination of Power Protective Devices with Illustrative Examples is the perfect textbook for instructors in electric power system protection courses and a must have reference for protection engineers in power electric companies and for researchers and industry professionals specializing in power system protection

Electrical Circuit Analysis Uday A. Bakshi, Late Ajay V. Bakshi, 2020-12-10 The importance of Electrical Circuit Analysis is well known in the various engineering fields The book provides comprehensive coverage of mesh and node analysis various network theorems analysis of first and second order networks using time and Laplace domain steady state analysis of a c circuits coupled circuits and dot conventions network functions resonance and two port network parameters The book starts with explaining the network simplification techniques including mesh analysis node analysis and source shifting Then the book explains the various network theorems and concept of duality The book also covers the solution of first and second order networks in time domain The sinusoidal steady state analysis of electrical circuits is also explained in the book The book incorporates the discussion of coupled circuits and dot conventions The Laplace transform plays an important role in the network analysis The chapter on Laplace transform includes properties of Laplace transform and its application in the network analysis The book includes the discussion of network functions of one and two port networks The book incorporates the detailed discussion of resonant circuits The book covers the various aspects of two port network parameters along with the conditions of symmetry and reciprocity It also derives the interrelationships between the two port network parameters The book uses plain and lucid language to explain each topic Each chapter gives the conceptual knowledge about the topic dividing it in various sections and subsections The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy The variety of solved examples is the feature of this book The book explains the philosophy of the subject which makes the understanding of the subject very clear and makes the subject more interesting

Basic Electrical & Electronics Engineering, 2012

[Electrical Machines - I](#) Uday A. Bakshi, Dr. Mayuresh V. Bakshi, 2020-11-01 The importance of various electrical machines is well known in the various engineering fields The book provides comprehensive coverage of the magnetic circuits magnetic materials single and three phase transformers and d c machines The book is structured to cover the key aspects of the course Electrical Machines I The book starts with the explanation of basics of magnetic circuits concepts of self and mutual inductances and important magnetic materials Then it explains the fundamentals of single phase transformers including the construction phasor diagram equivalent circuit losses efficiency methods of cooling parallel operation and autotransformer The chapter on three phase transformer provides the detailed discussion of construction connections phasor groups parallel operation tap changing transformer and three winding transformer The various testing methods of transformers are also incorporated in the book The book further explains the

concept of electromechanical energy conversion including the discussion of singly and multiple excited systems Then the book covers all the details of d c generators including construction armature reaction commutation characteristics parallel operation and applications The book also includes the details of d c motors such as characteristics types of starters speed control methods electric braking and permanent magnet d c motors Finally the book covers the various testing methods of d c machines including Swinburne s test brake test retardation test and Hopkinson s test The book uses plain lucid language to explain each topic The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy Each chapter is well supported with necessary illustrations self explanatory diagrams and variety of solved problems All the chapters are arranged in a proper sequence that permits each topic to build upon earlier studies The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting

Transformers and Generators Uday A. Bakshi, Dr. Mayuresh V. Bakshi, 2020-11-01 The importance of transformers and generators is well known in the various engineering fields The book provides comprehensive coverage of the various types of transformers d c generators and synchronous generators alternators The book starts with the brief review of single phase transformer It continues to discuss no load and on load performance of transformers phasor diagrams equivalent circuit voltage regulation and all day efficiency of transformer The detailed discussion of open and short circuit tests and predetermination of regulation and efficiency is also included in the book The chapter on three phase transformer provides the detailed discussion of construction three phase transformer connections and phasor groups The book also explains parallel operation of transformers tap changing transformer autotransformers cooling of transformers and three winding transformer The various testing methods of transformers are also incorporated in the book The book covers all the details of d c generators including construction armature reaction commutation characteristics and applications The chapters on synchronous generators starts with the explanation of basics of synchronous generators including construction winding details e m f equation and effect of harmonics on induced e m f The book then explains the concept of armature reaction phasor diagrams regulation and various methods of finding the regulation of alternator Stepwise explanation and simple techniques used to elaborate these methods is the feature of this book The book further explains the concept of synchronization of alternators two reaction theory and parallel operation of alternators The book uses plain lucid language to explain each topic The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy Each chapter is well supported with necessary illustrations self explanatory diagrams and variety of solved problems The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting

Elements of Electrical Engineering Uday A. Bakshi, 2007 D C Circuit Concept of EMF P D and current Resistance Effect of temperature of resistance resistance temperature co efficient Classification of electric network Ohm s law Kirchoff s law and their application for network solution Simplification of

network using series and parallel combination and star delta transformation Magnetic CircuitMagnetic effect of electric current Law of magnetic force Magnetic field Concept of mmf Magnetic flux Flux density Reluctance permeability and field strength and their units Cross and dot convention current Simple series and parallel magnetic circuit Comparison between electric circuit and magnetic circuit Force on current carrying conductor in magnetic field Fleming's rules A C FundamentalsRepresentation of an a c source polarity of a c source Generation of a c voltage Concept of instantaneous Peak Average and r m s values cycle Period Frequency Peak factor and form factor phase difference Phasor representation and indication of phase difference in it Rectangular and polar representation of phasor A C CircuitStudy of a c circuit consisting of purely resistive Purely inductive Purely capacitive type and corresponding voltage and current phasor diagram Concept of reactance Study of series and parallel circuit consisting resistance Inductance and capacitance and its phasor Combination of to develop the concept of impedance Admittance Conductance Susceptance Necessity of earthing Its types Fuses safety precaution in working with electricity Circuit and operation of filament lamp Fluorescent tube Mercury vapour Sodium vapour lamp

Electrical Machines - II Uday A. Bakshi,2020-11-01 The importance of various electrical machines is well known in the various engineering fields The book provides comprehensive coverage of the synchronous generators alternators synchronous motors three phase and single phase induction motors and various special machines The book is structured to cover the key aspects of the course Electrical Machines II The book starts with the explanation of basics of synchronous generators including construction winding details and e m f equation The book then explains the concept of armature reaction phasor diagrams regulation and various methods of finding the regulation of alternator Stepwise explanation and simple techniques used to elaborate these methods is the feature of this book The book further explains the concept of synchronization of alternators two reaction theory and parallel operation of alternators The chapter on synchronous motor provides the detailed discussion of construction working principle behavior on load analysis of phasor diagram Vee and Inverted Vee curves hunting and applications The book further explains the three phase induction motors in detail It includes the construction working effect of slip torque equation torque ratios torque slip characteristics losses power flow equivalent circuit effect of harmonics on the performance and applications This chapter includes the discussion of induction generator and synchronous induction motor The detailed discussion of circle diagram is also included in the book The book teaches the various starting methods speed control methods and electrical braking methods of three phase induction motors Finally the book gives the explanation of various single phase induction motors and special machines such as reluctance motor hysteresis motor repulsion motor servomotors and stepper motors The discussion of magnetic levitation is also incorporated in the book The book uses plain lucid language to explain each topic The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy Each chapter is well supported with necessary illustrations self explanatory diagrams and variety of solved problems The book explains the

philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting

Electron Devices and Circuits Atul. P. Godse, Uday A. Bakshi, 2020-11-01 The book covers all the aspects of theory analysis and design of Electron Devices and Circuits for the undergraduate course The concepts of p n junction devices BJT JFET MOSFET electronic devices including UJT thyristors IGBT Amplifier circuits BJT JFET and MOSFET amplifiers multistage and differential amplifiers feedback amplifiers and oscillators are explained comprehensively The book explains various p n junction devices including diode LED laser diode Zener diode and Zener diode regulator The different types of rectifiers are explained in support The book covers the construction operation and characteristics of BJT JFET MOSFET UJT Thyristors SCR Diac and Triac and IGBT It explains the biasing of BJT JFET and MOSFET amplifiers basic BJT JFET and MOSFET amplifiers with h parameters and r parameters equivalent circuits multistage amplifiers differential amplifiers BiCMOS amplifier single tuned amplifiers neutralization methods power amplifiers and frequency response Finally the book incorporates a detailed discussion of the analysis of the current series voltage series current shunt and voltage shunt feedback amplifiers The book also includes the discussion of the Barkhausen criterion for oscillations and the detailed analysis of various oscillator circuits including RC phase shift Wien bridge Hartley Colpitt's Clapp and crystal oscillators The book uses straightforward and lucid language to explain each topic The book provides the logical method of describing the various complicated issues and stepwise methods to make understanding easy The variety of solved examples is the feature of this book The book explains the subject's philosophy which makes understanding the concepts evident and makes the subject more interesting

Control System Engineering Uday A. Bakshi, Varsha U. Bakshi, 2020-11-01 The book is written for an undergraduate course on the Feedback Control Systems It provides comprehensive explanation of theory and practice of control system engineering It elaborates various aspects of time domain and frequency domain analysis and design of control systems Each chapter starts with the background of the topic Then it gives the conceptual knowledge about the topic dividing it in various sections and subsections Each chapter provides the detailed explanation of the topic practical examples and variety of solved problems The explanations are given using very simple and lucid language All the chapters are arranged in a specific sequence which helps to build the understanding of the subject in a logical fashion The book starts with explaining the various types of control systems Then it explains how to obtain the mathematical models of various types of systems such as electrical mechanical thermal and liquid level systems Then the book includes good coverage of the block diagram and signal flow graph methods of representing the various systems and the reduction methods to obtain simple system from the analysis point of view The book further illustrates the steady state and transient analysis of control systems The book covers the fundamental knowledge of controllers used in practice to optimize the performance of the systems The book emphasizes the detailed analysis of second order systems as these systems are common in practice and higher order systems can be approximated as second order systems The book teaches the concept of stability and time domain stability

analysis using Routh Hurwitz method and root locus method It further explains the fundamentals of frequency domain analysis of the systems including co relation between time domain and frequency domain The book gives very simple techniques for stability analysis of the systems in the frequency domain using Bode plot Polar plot and Nyquist plot methods It also explores the concepts of compensation and design of the control systems in time domain and frequency domain The classical approach loses the importance of initial conditions in the systems Thus the book provides the detailed explanation of modern approach of analysis which is the state variable analysis of the systems including methods of finding the state transition matrix solution of state equation and the concepts of controllability and observability The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the design and analysis of the control systems in the students The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting

Network Analysis Uday A. Bakshi,Late Ajay V. Bakshi,2020-12-01 The book covers all the aspects of Network Analysis for undergraduate course The book provides comprehensive coverage of network analysis and simplification techniques network theorems graph theory transient analysis filters attenuators Laplace transform network functions and two port network parameters with the help of large number of solved problems The book starts with explaining the various network simplification techniques including mesh analysis node analysis and source shifting The basics of a c fundamentals are also explained in support The book covers the various network theorems Then the book explains the graph theory its application in network analysis along with the concept of duality The transient analysis of various networks is also explained in the book The book incorporates the detailed discussion of resonant circuits The book also explains the theory of four terminal networks filters and attenuators The Laplace transform plays an important role in the network analysis The chapter on Laplace transform includes properties of Laplace transform and its application in the network analysis The book includes the discussion of network functions of one and two port networks The book covers the various aspects of two port network parameters along with the conditions of symmetry and reciprocity It also derives the interrelationships between the two port network parameters The book uses plain and lucid language to explain each topic The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy The variety of solved examples is the feature of this book The book explains the philosophy of the subject which makes the understanding of the subject very clear and makes the subject more interesting The students have to omit nothing and possibly have to cover nothing more

Electric Motors Uday A. Bakshi,Dr. Mayuresh V. Bakshi,2020-11-01 The importance of electric motors is well known in the various engineering fields The book provides comprehensive coverage of the various types of electric motors including d c motors three phase and single phase induction motors synchronous motors universal motor a c servomotor linear induction motor and stepper motors The book covers all the details of d c motors including torque equation back e m f characteristics types of starters speed control methods and applications The

book also covers the various testing methods of d c motors such as Swinburne s test brake test retardation test field test and Hopkinson s test The book further explains the three phase induction motors in detail It includes the production of rotating magnetic field construction working effect of slip torque equation torque ratios torque slip characteristics losses power flow equivalent circuit effect of harmonics on the performance circle diagram and applications This chapter also includes the discussion of induction generator The book teaches the various starting methods and speed control methods of three phase induction motors The book incorporates the explanation of various single phase induction motors The chapter on synchronous motor provides the detailed discussion of construction working principle behavior on load analysis of phasor diagram Vee and Inverted Vee curves hunting synchronous condenser and applications The book also teaches the various special machines such as single phase commutator motors universal motor a c servomotor linear induction motor and stepper motors The book uses plain lucid language to explain each topic The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy Each chapter is well supported with necessary illustrations self explanatory diagrams and variety of solved problems The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting **Electronic**

Circuits-I Atul. P. Godse, Uday A. Bakshi, 2020-11-27 The book covers all the aspects of theory analysis and design of Electronic Circuits for the undergraduate course The concepts of biasing of BJT JFET MOSFET along with the analysis of BJT FET and MOSFET amplifiers are explained comprehensively The frequency response of amplifiers is explained in support The detailed essential of rectifiers filters and power supplies are also incorporated in the book The book covers biasing of BJT JFET and MOSFET and analysis of basic BJT JFET and MOSFET amplifiers with Hybrid equivalent circuits It also includes the Darlington amplifier discussion amplifiers using Bootstrap technique multistage amplifiers differential amplifiers and BiCMOS cascade amplifier The in depth analysis of the frequency response of various amplifiers is also included in the book Finally the book covers all the aspects of rectifiers types of filters linear regulators power supplies and switching regulators The book uses straightforward and lucid language to explain each topic The book provides the logical method of describing the various complicated issues and stepwise methods to make understanding easy The variety of solved examples is the feature of this book The book explains the subject s philosophy which makes understanding the concepts evident and makes the subject more interesting **Basic Electrical Engineering** Ritu Sahdev, Although a number of books written by various

authors on the subject are available in the market However the author feels that this book will facilitate the students not only to prepare for the regular University examinations The book is also quite suitable for the professionals since many live examples have been incorporated The book has the following exclusive features i The Learning objectives of each chapter have been incorporated in the beginning to develop curiosity among the students ii Practice exercise have been added in all the chapters after suitable intervals to impart necessary practice iii At the end of each chapter its summary highlights are

given This will enable the students to revise the subject matter quickly iv A number of short answer and test questions have been given at the end of each chapter While answering these questions the readers will have to think deep into the subject matter This will improve their analytical approach Consequently the students readers will be in position to respond in a better way while appearing before the selection board or to deal with practical problems v A sufficient number of objective type questions MCQ have been given at the end of each chapter These questions will help the students to perform better in the competitive examinations vi The subject matter is treated in a simple and lucid manner so that an average student can understand the subject easily Although typical mathematical expressions are avoided but simple mathematical relations are used for better explanation and understanding

Electronic Circuits Atul P. Godse,Uday A. Bakshi,2020-12-01 The book covers all the aspects of theory analysis and design of Electronic Circuits for the undergraduate course It provides all the essential information required to understand the operation and perform the analysis and design of a wide range of electronic circuits including MOSFET as a switching and amplifier circuits feedback amplifiers oscillators voltage regulators operational amplifiers and its applications DAC ADC and Phase Locked Loop The book is divided into four parts The first part focuses on the fundamental concepts of MOSFET MOSFET construction characteristics and circuits as a switch as a resistor diode as an amplifier and current sink and source circuits The second part focuses on the analysis of voltage series and current series feedback amplifiers It also explains the Barkhausen criterion for oscillation and incorporates the detailed analysis of Wien bridge and phase shift oscillators The third part is dedicated to the basics of op amp and a discussion of a variety of its applications The fourth part focuses on the V to I and I to V Converters DAC and ADC and Phase Locked Loop The book uses straightforward and lucid language to explain each topic The book provides the logical method of describing the various complicated issues and stepwise methods to make understanding easy The variety of solved examples is the feature of this book The book explains the subject s philosophy which makes understanding the concepts evident and makes the subject more interesting

Transmission and Distribution Uday A. Bakshi,Dr. Mayuresh V. Bakshi, The book covers all the aspects of Transmission and Distribution for undergraduate course The various aspects of transmission and distribution systems FACTS sag calculations parameters and performance of transmission lines insulators cables substations and grounding systems are explained in the book with the help of comprehensive approach The book starts with the discussion of basics of power system It includes comparison of material required for overhead and underground systems Various types of d c and a c distribution systems EHVAC HVDC and FACTS devices is also included in the book The book explains the sag calculation under different conditions and sag template In depth analysis of transmission line parameters is also included in the book The book also covers the performance analysis of short medium and long transmission lines along with circle diagram and methods of voltage control The details of corona effect are explained in support The book incorporates the discussion of types of insulators string efficiency methods of improving string efficiency single and three core cables grading of cables heating

and testing of cables The chapter on substations includes the explanation of various types of substations substation equipment s and key diagrams The book also covers the various types of grounding systems grounding grids and resistance of grounding systems The book uses plain and lucid language to explain each topic The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy Each chapter is well supported with necessary illustrations self explanatory diagrams and large number of solved problems The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting

Basic Electrical Engineering Dr. Ramana Pilla, Dr. M Surya Kalavathi & Dr. G T Chandra Sekhar,2022-01-03 This book is designed based on revised syllabus of JNTU Hyderabad AICTE model curriculum for under graduate B Tech BE students of all branches those who study Basic Electrical Engineering as one of the subject in their curriculum The primary goal of this book is to establish a firm understanding of the basic laws of Electric Circuits Network Theorems Resonance Three phase circuits Transformers Electrical Machines and Electrical Installation

Basic Electrical Engineering J. M. Shepherd,1964

Basic Electronics A.p.godse,1959

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