

Second Revised Edition - 2009

*Premier12*

# Basic Electrical Engineering



**U. A. Bakshi**  
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**Basic Electrical Engineering** Uday A Bakshi,Varsha U Bakshi,2013 *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 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

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

**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

**Elements of Electrical Engineering** Uday A. Bakshi,2007 D C CircuitConcept 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 Basic Electrical & Electronics Engineering ,2012

**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

*Basic Electrical and Electronics Engineering* Uday A. Bakshi, 2007

D C Circuits Circuits Identifying the elements and the connected terminology Kirchhoff s laws Statement and illustration Method of solving circuits by Kirchhoff s laws Computation of resistance at constant temperature Temperature dependence of resistance Computation of resistance at different temperatures Ohm s law Statement Illustration and limitation Units Work Power and energy electrical thermal and mechanical A C Fundamentals Generation of alternating emf Concept of 3 phase EMF generation Root mean square or effective value Average value of A C Phasor representation of alternating quantities Analysis of A C circuit representation of alternating quantities in rectangular and polar forms Introduction of resistors Conductors and capacitors R L series circuits R C series circuits R L C series circuits Admittance and its components Resonance in series and parallel Analysis of simple 3 phase system Star delta connections and conversion Magnetic Circuits and Machines Comparison between magnetic and electric circuits Electromagnetic induction Magnetic effects of electric current Current carrying conductor in magnetic field Law of electromagnetic induction Self inductance Mutual inductance coupling coefficient between two magnetically coupled circuits Transformer Principle construction working efficiency application D C Generator Principle construction working application D C motor Principle construction working application Three phase induction motor Principle construction working application Measuring Instruments Classification of instruments Basic principles of indicating instruments Moving iron

instruments Attraction and repulsion type Moving coil instruments Permanent magnet Dynamometer type Induction type energy meter Multimeters fundamentals of analog and digital multimeter Transducers Capacitive transducer Inductive transducers Linear variable differential transformer LVDT Potentiometric transducer Electrical strain gauges Thermistor Thermocouple Hall effect Piezoelectric transducer Photoelectric transducer Semiconductor Devices Principle of operation Characteristic and application of PN junction diode Zener diode Bipolar junction Field effect transistor Thyristor Opto electronics devices Rectifiers Integrated Circuits Linear ICs Digital ICs Linear ICs PIN diagram and its description for IC741 IC555 IC78XX series Regulator ICs Digital ICs 74XX series ICs Digital Electronics Binary number system Octal and hexadecimal Logic Galleries Introduction and truth tables Flip flops and the truth tables R S J K D and T

**Basic Electrical Engineering** A. Kasatkin, 1980 **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 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 Basic Electrical Engineering (Vel Tech) SK Sahdev, Attuned to the needs of undergraduate students of engineering in their first year Basic Electrical Engineering enables them to build a strong foundation in the subject A large number of real world examples illustrate the applications of complex theories The book comprehensively covers all the areas taught in a one semester course and serves as an ideal study material on the subject

**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* Ramana Pilla | HD Mehta, 2022-01-03 This book is designed based on revised syllabus of Gujarat Technological University Gujarat 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 Mehta V.K. & Mehta Rohit,2008 For close to 30 years Basic Electrical Engineering has been the go to text for students of Electrical Engineering Emphasis on concepts and clear mathematical derivations simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject Divided into 17 chapters the book covers all the major topics such as DC Circuits Units of Work Power and Energy Magnetic Circuits fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand      *Electrical Measurements and Instrumentation* Uday A. Bakshi,Late Ajay V. Bakshi,2020-11-01 The importance of measuring instruments and transducers is well known in the various engineering fields The book provides comprehensive coverage of various electrical and electronic measuring instruments transducers data acquisition system storage and display devices The book starts with explaining the theory of measurement including characteristics of instruments classification standards statistical analysis and limiting errors Then the book explains the various electrical and electronic instruments such as PMMC moving iron electrodynamicometer type energy meter wattmeter digital voltmeters and multimeters It also includes the discussion of various magnetic measurements instrument transformers power factor meters frequency meters phase meters and synchros The book further explains d c and a c potentiometers and their applications The book teaches various d c and a c bridges along with necessary derivations and phasor diagrams The book incorporates the various storage and display devices such as recorders plotters printers oscilloscopes LED LCDs and dot matrix displays The chapter on transducers is dedicated to the detailed discussion of various types of transducers such as resistive capacitive strain gauges RTD thermistors inductive LVDT thermocouples piezoelectric photoelectric and digital transducers It also adds the discussion of optical fiber sensors The book also includes good coverage of data acquisition system data loggers DACs and ADCs 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 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** David E. Higginbotham,1967      *Basic Electrical Engineering* SINGH, S. N.,2010-10-30 This book presents comprehensive coverage of all the basic concepts in electrical engineering It is designed for undergraduate students of almost all branches of engineering for an introductory course in essentials of electrical engineering This book explains in detail the properties of different electric circuit elements such as resistors inductors and capacitors The fundamental concepts of dc circuit laws such as Kirchhoff s current and voltage laws and various network theorems such as Thevenin s theorem Norton s theorem superposition theorem maximum power transfer theorem reciprocity theorem and Millman s theorem are thoroughly discussed The book also presents the analysis of ac circuits and discusses transient analysis due to switch operations in ac and dc circuits as well as analysis of three phase

circuits It describes series and parallel RLC circuits magnetic circuits and the working principle of different kinds of transformers In addition the book explains the principle of energy conversion the operating characteristics of dc machines three phase induction machines and synchronous machines as well as single phase motors Finally the book includes a discussion on technologies of electric power generation along with the different types of energy sources Key Features Includes numerous solved examples and illustrations for sound conceptual understanding Provides well graded chapter end problems to develop the problem solving capability of the students Supplemented with three appendices addressing matrix algebra trigonometric identities and Laplace transforms of commonly used functions to help students understand the mathematical concepts required for the study of electrical engineering

### **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

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