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# Basic Electrical Engineering



**U. A. Bakshi**  
**V. U. Bakshi**



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# Basic Electrical Engineering By Ua Bakshi

**Uday A. Bakshi, Dr. Mayuresh V. Bakshi**

## **Basic Electrical Engineering By Ua Bakshi :**

Basic Electrical Engineering Uday A Bakshi,Varsha U Bakshi,2013      **Introduction to Electrician Handbook** Ram Babu Sao,2025-05-16 This book Introduction to Electrician Handbook is a practical guide to Electrical Techniques employed by an Electrician or a tradesperson engaged in the repair of electric machines and domestic wiring of buildings Building electrification maintenance of electrical control systems of home appliances or another kind of repairing job Electricians install domestic wiring and control electrical equipment through which electricity flows They also install and maintain electrical equipment and machines in factories and a wide range of other businesses related to electrical Electricians generally focus on either construction or maintenance although many of them do both An electrician is a tradesperson specializing in electrical wiring of buildings stationary machines and related equipment Electricians may be employed in the installation of new electrical components or the maintenance and repair of existing electrical infrastructure They join an electrician apprenticeship program sponsored by the International Brotherhood of Electrical Workers IBEW National Electrical Contractors Association NECA Independent Electrical Contractors IEC or Industrial Training Institute ITI as electricians through a Government Institution These programs include both classroom courses and on the job training and take about 2 4 years to complete Construction electricians read blueprints of circuit diagrams install wiring and electrical controls in residential or commercial buildings and follow the state and local building regulations They might also dictate and train workers who are learning the skills It is a practical guide for ITI apprentices preparing for service interview or already employed Electricians may be employed in the installation of new electrical components machines and equipment or the maintenance and repair of existing electrical infrastructure All electricians should expect to maintain current knowledge of the National Electric Code throughout their careers Additional training may also be required to cover specific topics that apply to individual branches of the electrical trade      **Basic Electrical and Instrumentation Engineering** Sivaraman Palanisamy,Sharmeela Chenniappan,A. Thaiyal Nayagi,R. Mahendran,2021-01-13 Electrical and instrumentation engineering is changing rapidly and it is important for the veteran engineer in the field not only to have a valuable and reliable reference work which he or she can consult for basic concepts but also to be up to date on any changes to basic equipment or processes that might have occurred in the field Covering all of the basic concepts from three phase power supply and its various types of connection and conversion to power equation and discussions of the protection of power system to transformers voltage regulation and many other concepts this volume is the one stop go to for all of the engineer s questions on basic electrical and instrumentation engineering There are chapters covering the construction and working principle of the DC machine all varieties of motors fundamental concepts and operating principles of measuring and instrumentation both from a high end point of view and the point of view of developing countries emphasizing low cost methods A valuable reference for engineers scientists chemists and students this volume is applicable to many different fields across many

different industries at all levels It is a must have for any library      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      *Basic Electrical & Instrumentation Engineering* Uday A. Bakshi,Varsha U.

Bakshi,2020-12-01 The book covers all the aspects of Basic Electrical and Instrumentation Engineering for undergraduate course Various concepts of three phase a c circuit analysis with balanced and unbalanced loads tariff and power factor improvement single phase and three phase transformers d c machines single phase and three phase induction motors alternators synchronous motors basics of measuring instruments and transducers are explained in the book with the help of comprehensive approach The book starts with explaining the three phase a c circuit analysis with balanced and unbalanced loads concept of transmission distribution and power system protection The discussion of tariff and power factor improvement is also added in support The book further explains single phase and three phase transformers Then book provides the detailed discussion of d c generators and motors The book also includes the discussion of three phase and single phase induction motors synchronous generators synchronous motors and other motors such as stepper motor brushless d c motor and universal motor The book covers the classification and basic requirements of a measuring instrument Then the book explains the static and dynamic characteristics and types of errors in measuring instruments The book provides in

depth discussion of electronic multimeter and oscilloscope The book teaches the details of various types of transducers like resistive inductive capacitive thermoelectric piezoelectric photoelectric and Hall effect transducers The book uses plain simple and lucid language to explain each topic Each chapter gives the conceptual knowledge about the topic dividing it in the 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 *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 ac 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 **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

Basic Electrical & Electronics Engineering, 2012

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

Offshore Oil & Gas Platforms JOB INTERVIEW Petrogav International Oil & Gas Training Center, 2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview

Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 279 questions and answers for job interview and as a BONUS web addresses to 273 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

**Basic Electrical Engineering** Uday A. Bakshi,2020-11-01 The book is written for an undergraduate course on the Basic Electrical Engineering It provides comprehensive explanation of theory and practice of electrical engineering It elaborates various aspects of d c and a c circuit analysis magnetic circuits measuring instruments single phase transformers and various electrical machines The book starts with the concepts of electric charge current and potential difference It explains Kirchhoff's laws star delta transformation mesh analysis and node analysis It also covers the application of various network theorems in analyzing d c circuits The book incorporates detailed discussion of steady state analysis of single phase series and parallel a c circuits along with the resonance The book also explains the three phase balanced circuits three phase power measurement and power factor improvement The simple techniques and stepwise methods used to explain the phasor diagrams is the feature of the book The book teaches the theory of various electrical measuring instruments The book also covers the concept of earthing and electrical safety which is most important while dealing with the electrical equipment's The book also includes the discussion of magnetic circuits self and mutual inductances and magnetic hysteresis The book further explains the details of single phase transformers and various electrical machines such as d c machines three phase and single phase induction motors and synchronous machines The brief introduction of power system 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 All the chapters are arranged in a proper sequence that permits each topic to build upon earlier studies The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the basic electrical engineering 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

**How to be prepared for job interview Offshore Oil & Gas Rigs** Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 277 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you

to apply for any position in the Oil and Gas Industry      **JOB INTERVIEW Offshore Oil & Gas Platforms** Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 287 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry      **Job interview questions and answers for employment on Offshore Oil & Gas Rigs** Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 289 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry      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      **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 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 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 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

*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

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