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Electrical Engineering (as Per Uptu Syllabus)-C. L. Wadhwa 2006-01-01 Basic Electrical Engineering Has Been Written As A Core Course For All Engineering Students Viz. Electronics And Communication Engineering, Computer Engineering, Civil Engineering, Mechanical Engineering Etc. Since This Course Will Normally Be Offered At The First Year Level Of Engineering, The Author Has Made Modest Effort To Give In A Concise Form. Various Features Of Basic Electrical Engineering Using Simple Language And Through Solved Examples, Avoiding The Rigorous Of Mathematics.Salient Features * Steady State Analysis Of A.C. Circuits Explained * Network Theorems Explained Using Typical Examples * Analysis Of 3-Phase Circuits And Measurement Of Power In These Circuits Explained * Measuring Instruments Like Ammeter, Voltmeter, Wattmeter And Energy Meter Described * Various Electrical Machines, Like Transformers, D.C. Machines, Single Phase And Three Phase Induction Motors, Synchronous Machines, Servomotors Have Been Described * A Brief View Of Power System Including Conventional And Nonconventional Services Of Electrical Energy Is Given * Numerous Solved Examples And Practice Problems For Thorough Grasp Of The Subject Presented * A Large Number Of Multiple-Choice Questions With Answers Given
Fundamentals of Electrical Engineering-Dr. Yaduvir Singh 2010-02
Electrical And Electronics Engineering-U.A.Bakshi 2009
Basic Electrical Engineering-K. N. Srinivas 2007-01-01 The aim of this book is to provide a consolidated text for the first year B.E. Computer Science and Engineering students and B.Tech Information Technology students of Anna University. The syllabus has been thoroughly revised for the non-semester yearly pattern by the University. The book, made up of five chapters, systematically covers the five units of the syllabus. It begins with a detailed discussion on the fundamentals of electric circuits. DC circuits, AC circuits, 3-phase circuits, resonance and the network theorems. Lecture-type presentation of the rudiments of the fundamentals in conjunction with hundreds of solved examples is the strength of this book. Magnetic circuits and various magnetic elements and their properties, with number of illustrations are presented. DC machines and transformers are further dealt with. Equivalent circuits of machines supported with the respective photographs will ease the reader to understand the concepts of machines much better. Synchronous machines and asynchronous machines and fundamentals of control systems with various practical examples and relevant worked illustrations conclude this book. A large number of numerical illustrations and diagrammatic representations make this book valuable for students and teachers.
Electronics Engineering : (As Per The New Syllabus, B.Tech. I Year Of U.P. Technical University)-D. S. Chauhan 2009-01-01 Suitable for a student taking a course in Electronics for the first time, this title explains 'what electronics is', 'what are its applications in our day-to-day life', 'what components are used in electronic circuits', 'Future trends in electronics', and more.
Electrical Machines-Bhattacharya 2008-08-27
Electrical Engineering (For 1st Year of UPTU & UTU)-Navani J.P. & Sapra Sonal 2013 Basic Of Concepts • D.C. Circuit Analaysis • Network Theorem • A. C. Fundamentals • Analysis Of Single Phase A.C. Circuit • Three Phase A.C. Circuit • Measuring Instruments • Introduction To Power System • Magnetic Circuits • Single Phase Trasformer • D.C. Machines • Induction Motors • Three Phase Synchronus Machaines Papers Index
Fluctuation Phenomena-E Montroll 2012-12-02 Studies in Statistical Mechanics, Volume VII: Fluctuation Phenomena Fluctuation explores different aspects of fluctuation behavior and their relation to microscopic processes and other phenomena, including the nucleation of a new phase following the quenching of a system into the coexistence region. It looks at phenomenological fluctuation theories, stochastic processes such as Markoff and momentless processes, and stochastic geometric aspects of amorphous solids. Comprised of five chapters, this volume begins with an overview of fluctuations and the Ehrenfest dog-flea model. It then turns to a discussion of density fluctuations in dilute gases, the Langevin theory of Brownian motion, and classical diffusion and random walks. It also systematically introduces the reader to the statistical mechanical theory of the kinetics of phase transitions, the molecular theory of metastability, and multidimensional continuous time random walks, along with the effect of boundaries and defects onf stochastic processes. In addition, it describes the phenomenological theory of the kinetics of nucleation and its application to nucleation, spinodal decomposition, and condensation. Other chapters focus on a stochastic model for the kinetics of phase transitions, the physical ideas used in theories of metastability, and the importance of dynamics in the study of metastability. The book explains how to estimate the escape rate and describes the statistical mechanics of clusters before concluding with a discussion of slowly-varying ensembles. This book is a valuable resource for students, physicists, and researchers who want to gain more knowledge and learn about statistical mechanics in general and fluctuation phenomena in particular.
Objective Electrical Technology-Rohit Mehta 2008 In the present edition,authors have made sincere efforts to make the book up-to-date.A noteable feature is the inclusion of two chapters on Power System.It is hoped that this edition will serve the readers in a more useful way.
Engineering Physics Theory And Experiments : (As Per The New Syllabus, B. Tech. I Year Of U.P. Technical University)-Srivastava 2009-01-01
Manufacturing Processes (As per the new Syllabus, B.Tech. I year of U.P. Technical University)- 2009 About the Book: Manufacturing process has become important in the industrial environment to produce products for the service of mankind. The basic need is to provide theoretical and practical knowledge of manufacturing processes to all the engineering students. This book covers most of the syllabus of manufacturing processes for engineering classes prescribed by UPTU. At the end of each chapter, a number of questions have been provided for testing the students understanding about the concept of the subject. The whole text has been organized in 10 chapters. The first chapter presents the br.
Basic Electrical Engineering-V.U.Bakshi U.A.Bakshi 2009 Electrical EngineeringEssence of electricity, Conductors, Semiconductors and insulators (elementary treatment only); Electric field, electric current, Potential and potential difference, Electromotive force, Electric power, Ohm's law, Basic circuit components, Electromagnetism related laws, Magnetic field due to electric current flow, Force on a current carrying conductor placed in a magnetic field, Faradays laws of electromagnetic induction. Types of induced EMF's, Kirchhoff's laws, Simple problems.Network AnalysisBasic definitions, Types of elements, types of sources, Resistive networks, Inductive networks, Capacitive networks, Series parallel circuits, Star delta and delta star transformation, Network theorems-Superposition, Thevenins's, Maximum power transfer theorems and simple problems.Magnetic CircuitsBasic definitions, Analogy between electric and magnetic circuits, Magnetization characteristics of Ferro magnetic materials, Self inductance and mutual inductance, Energy in linear magnetic systems, Coils connected in series, Attracting force or electromagnets.Alternating QuantitiesPrinciple of ac voltages, Waveforms and basic definitions, Relationship between frequency, Speed and number of poles, Root mean square and average values of alternating currents and voltage, form factor and peak factor, Phasor representation of alternating quantities, The J operator and phasor algebra, analysis of ac circuits with single basic network element, single phase series circuits, Single phase parallel circuits, Single phase series parallel circuits, Power in ac circuits.TransformersPrinciples of operation, Constructional details, Ideal Transformer and Practical Transformer, Losses, Transformer Test, Efficiency and Regulation Calculations.Direct current machinesPrinciple of operation of dc machines, Armature windings, E.M.F. equation in a dc machine, Torque production in a dc machine, Operation of a dc machine as a generator, Operation of a dc machine as a motor.A.C. MachinesThree phase induction motor, principle of operation, Slip and rotor frequency, Torque (simple problems).Synchronous MachinesPrinciple of operation, EMF equation (Simple problems on EMF). Synchronous motor principle and operation (Elementary treatment only)Basic InstrumentClassification of instruments, Operating principles, Essential features of measuring instruments, Moving coil permanent magnet (PMMC) instruments, Moving Iron of Ammeters and Voltmeters (elementary treatment only).
Electrical Technology-U.A.Bakshi 2009
Linear System Analysis-U.A.Bakshi 2009
E-learning Methodologies-Beatrice Ghirardini 2011 The "E-Learning Methodologies" guide will support professionals involved in the design and development of e-learning projects and products. The guide reviews the basic concepts of e-learning with a focus on adult learning, and introduces the various activities and roles involved in an e-learning project. The guide covers methodologies and tips for creating interactive content and for facilitating online learning, as well as some of the technologies used to create and deliver e-learning.
Basics Of Electrical And Electronics Engineering-A.P.Godse U.A.Bakshi 2007 Electrical Circuits and MeasurementsOhm's law, Kirchoff's laws, Steady state solution of DC circuits, Introduction to AC circuits, Waveforms and RMS value, Power and power factor, Single phase and three phase balanced circuits.Operating principles of moving coil and moving iron instruments (Ammeters and voltmeters), Dynamometer type watt meters and energy meters.Electrical MachinesConstruction, Principle of operation, Basic equations and applications of DC generators, DC motors, Single phase transformer, Induction motors and stepper motors.Semiconductor Devices and ApplicationsCharacteristics of PN junction diode, Zener effect, Zener diode and its characteristics, Half wave and full wave rectifiers, Voltage regulation.Bipolar junction transistor, CB, CE, CC configurations and characteristics, Necessity of biasing, Principles of biasing circuits, Elementary treatment of small signal amplifier.Characteristics and simple applications of SCR, DIAC, TRIAC and UJT.Digital ElectronicsBinary number system, Logic gates, Boolean algebra, Half and full adders, Flip-flops, Registers and counters, A/D and D/A conversions.Fundamentals of Communication EngineeringTypes of signals : Analog and digital signals - Modulation and demodulation : Principles of amplitude and frequency modulations.Communication systems : Radio, TV, Fax, Microwave, Satellite and optical fibre.
Basic Electrical and Electronics Engineering:-S.K. Bhattacharya Basic Electrical and Electronics Engineering provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level. The book allows students outside electrical and electronics engineering to easily
Proceedings-Institution of Radio and Electronics Engineers, Australia 1972
BASIC ELECTRICAL ENGINEERING-Dr. K. A. Navas 2018-08-01 This book is prepared as per the syllabus of Dr A P J Abdul Kalam Technical University, Uttar Pradesh for first year B. Tech (Engineering) course using the reference books given in the course syllabus. Authors have tried to elucidate the topics such a way that even a mediocre student can assimilate them. Many solved problems, sample question papers and exercise given in every section will provide a thorough understanding of topics
Electrical Machines-U.A.Bakshi 2009
ELECTRONIC DEVICES AND CIRCUITS-BALBIR KUMAR 2014-01-01 Designed as a text for the students of various engineering streams such as electronics/electrical engineering, electronics and communication engineering, computer science and engineering, IT, instrumentation and control and mechanical engineering, this well-written text provides an introduction to electronic devices and circuits. It introduces to the readers electronic circuit analysis and design techniques with emphasis on the operation and use of semiconductor devices. It covers principles of operation, the characteristics and applications of fundamental electronic devices such as p-n junction diodes, bipolar junction transistors (BJTs), and field effect transistors (FETs), and special purpose diodes and transistors. In its second edition, the book includes a new chapter on “special purpose devices”. What distinguishes this text is that it explains the concepts and applications of the subject in such a way that even an average student will be able to understand working of electronic devices, analyze, design and simulate electronic circuits. This comprehensive book provides: • A large number of solved examples. • Summary highlighting the important points in the chapter. • A number of Review Questions at the end of each chapter. • A fairly large number of unsolved problems with answers.
Power System Protection and Switchgear-B. Ravindranath 1977
A Course In Power Systems-J.B. Gupta 2009
Basic Electrical Engineering-Dr. Ramana Pilla, Dr. M Surya Kalavathi & Dr. G T Chandra Sekhar 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.
Krishna's Environment and Ecology; for B. Tech Ist and IInd semester students of All Engineering Colleges affiliated to U.P. Technical University, Lucknow; As per revised syllabus, w.e.f. 2008-09-
Manufacturing Processes (as Per The Uptu New Syllabus)-Savita Sharma 2010-10-01 Manufacturing Processes is meant for the students of B.Tech. in all branches of engineering, namely, Mechanical, Electronics, Computer, Information Technology, Electrical and Civil. This book aims to fullfil specific need. Effective from 2008-09 sessions
Generation, Distribution and Utilization of Electrical Energy-C. L. Wadhwa 1989
An Integrated Course In Electrical Engineering (3rd Edition)-J.B. Gupta 2009
The Electrical Engineer- 1908
POWER ELECTRONICS-M. S. JAMIL ASGHAR 2004-01-01 This textbook, designed for undergraduate students of electrical engineering, offers a comprehensive and accessible introduction to state-of-the-art power semiconductor devices and power electronic converters with an emphasis on design, analysis and realization of numerous types of systems. Each topic is discussed in sufficient depth to expose the fundamental principles, concepts, techniques, methods and circuits, necessary to thoroughly understand power electronic systems.
Fundamentals of Electrical Engineering-Leonard S. Bobrow 1996 Divided into four parts: circuits, electronics, digital systems, and electromagnetics, this text provides an understanding of the fundamental principles on which modern electrical engineering is based. It is suitable for a variety of electrical engineering courses, and can also be used as a text for an introduction to electrical engineering.
Basic Electrical Engineering-Sahdev SK 2015 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.
Indian National Bibliography-B. S. Kesavan 2010
Basic Electrical And Electronics Engineering-A.P.Godse U.A.Bakshi 2007 D.C. CircuitsCircuits : 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. FundamentalsGeneration 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 MachinesComparison 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 InstrumentsClassification 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.TransducersCapacitive transducer, Inductive transducers, Linear variable differential transformer (LVDT), Potentiometric transducer, Electrical strain gauges, Thermistor, Thermocouple, Hall effect, Piezoelectric transducer, Photoelectric transducer.Semiconductor DevicesPrinciple of operation; Characteristic and application of PN junction diode, Zener diode, Bipolar junction, Field effect transistor, Thyristor, Opto-electronics devices, Rectifiers.Integrated CircuitsLinear ICs, Digital ICs, Linear ICs : PIN diagram and its description for IC741, IC555, IC78XX series (Regulator ICs), Digital ICs : 74XX series ICs.Digital ElectronicsBinary number system, Octal and hexadecimal, Logic Galleries, Introduction and truth tables, Flip flops and the truth tables; R-S, J-K, D and T.
Power System Engineering, 3e-D P Kothari 2019-04-26 This hallmark text on Power System Engineering provides the readers a comprehensive account of all key concepts in the field. The book includes latest technology developments and talks about some crucial areas of Power system, such as Transmission & Distribution, Analysis & Stability, and Protection & Switchgear. With its rich content, it caters to the requirements of students, instructors, and professionals.
The Electrical Review- 1908
The Electrical Journal- 1905
Which Degree 1985/6- 1985
Objective Electronic Engineering-P. K. Mishra 2010-09-01

Human Values And Professional Ethics-Vaishali R Khosla 2009

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