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CONRAD RIVAS

Basic Electrical, Electronics and Instrumentation Engineering Vikas Publishing House

UNIT I - ELECTRICAL CIRCUITS Basic circuit components, Ohms Law - Kirchoff's Law - Instantaneous Power - Inductors - Capacitors - Independent and Dependent Sources - steady state solution of DC circuits - Nodal analysis, Mesh analysis- Thevinin's Theorem, Norton's Theorem, Maximum Power transfer theorem- Linearity and Superposition Theorem. UNIT II - AC CIRCUITS Introduction to AC circuits - waveforms and RMS value - power and power factor, single phase and three-phase balanced circuits - Three phase loads - housing wiring, industrial wiring, materials of wiring UNIT III - ELECTRICAL MACHINES Principles of operation and characteristics of; DC machines, Transformers (single and three phase), Synchronous machines, three phase and single phase induction motors. UNIT IV - ELECTRONIC DEVICES & CIRCUIT Types of Materials - Silicon & Germanium- N type and P type materials -PN Junction -Forward and Reverse Bias -Semiconductor Diodes -Bipolar Junction Transistor - Characteristics - Field Effect Transistors - Transistor Biasing -Introduction to operational Amplifier -Inverting Amplifier -Non Inverting Amplifier -DAC - ADC. UNIT V - MEASUREMENTS & INSTRUMENTATION Introduction to transducers - Classification of Transducers: Resistive, Inductive, Capacitive, Thermoelectric, piezoelectric, photoelectric, Hall effect and Mechanical-, Classification of instruments - Types of indicating Instruments - multimeters - Oscilloscopes- - three-phase power measurements - instrument transformers(CT and PT)

Ethics in Science and Engineering Disha Publications

MATLAB is one of the most widely used tools in the field of engineering today. Its broad appeal lies in its interactive environment with hundreds of built-in functions. This book is designed to get you up and running in just a few hours -- Provided by publisher.

Electronics Engineering S. Chand Publishing

Basic Electrical and Electronics Engineering Volume I is designed as per the syllabus requirements of the first year core paper Basic Electrical and Electronics Engineering I, offered to the first year first semester, undergraduate students of engineering in the West Bengal University of Technology (WBUT). With its simple language and clear-cut style of explanation, this book presents an intelligent understanding of the basics of electrical and electronics.

Power System Engineering ALPHA SCIENCE INTERNATIONAL LIMITED

ELECTRICAL TECHNOLOGY is systematically developed to meet the syllabus of undergraduate course in Electrical Engineering of various universities. The complicated concepts are explained in a lucid manner with the help of necessary diagrams and waveforms. Comprehensive coverage has been made to explain the concepts of application-level topics like Electric Traction and Power Electronics. Review questions have been added at the end of each chapter for better understanding of the subject apart from numerous numerical and design problems.

Electric Circuit Analysis S. Chand Publishing

This book has been prepared by a group of faculties who are highly experienced in training GATE candidates and are also subject matter experts. As a result this book would serve as a one-stop solution for any GATE aspirant to crack the examination. The book is divided into three parts covering, (1) General Aptitude, (2) Engineering Mathematics and (3) Electrical Engineering. Coverage is as per the syllabus prescribed for GATE and topics are handled in a comprehensive manner - beginning from the basics and progressing in a step-by-step manner supported by ample number of solved and unsolved problems. Extra care has been taken to present the content in a modular and systematic manner - to facilitate easy understanding of all topics.

Electrical engineering handbook Manoj Dole

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 I. K. International Pvt Ltd

This book has been written for the students of third semester of electrical engineering of Gujarat Technological University (GTU). It would also be useful for the students of third semester of power electronics branch. The book provides comprehensive knowledge of the DC machines and transformers and has an extended summary in the form of 'Key points to remember', and a large number of solved and unsolved problems. In the exercise, the questions have been presented in accordance with the GTU examination pattern. Key Features • Strictly as per the GTU syllabus • Over 125 descriptive questions • Examinations oriented approach • Includes questions of the last five years of GTU examinations

Basic Electrical Engineering S. Chand Publishing

Principles of Power System is a comprehensive textbook for students of engineering. It also caters to the requirements of those readers who wish to increase their knowledge and gain a sound grounding in power systems as a whole. Twenty six chapters succinctly sum up the subject with topics such as Supply and Distribution Systems, Fault Calculations (Symmetrical and Unsymmetrical), Voltage Control, Fuses and Circuit Breakers giving the learner an understanding of the subject and an orientation to apply the knowledge gained in real world problem solving. A book which has seen, foreseen and incorporated changes in the subject for more than 30 years, it continues to be one of the most sought after texts by the students.

Basic Electrical Engineering Laxmi Publications

"The text is suitable for a typical introductory algebra course, and was developed to be used flexibly. While the breadth of topics may go beyond what an instructor would cover, the modular approach and the richness of content ensures that the book meets the needs of a variety of programs."--Page 1.

SSC JE Electrical Engineering Conventional: Topic-wise (2004 - 2018) Previous Years Solved Papers 2021 New Age International

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 Vikas Publishing House

This book is prepared as per the syllabus of VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Karnataka 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.

Principles of Electrical Machines Sapna Book House (P) Ltd.

First Edition of my book on 'Utilization of Electrical Energy' for Semester VI of Diploma Course in Electrical Engineering Group for the Board of SBTE, Zharkhand. I am thankful to students and teachers as they have highly appreciated and accepted my previous books, which cover cent percent syllabus and gives additional knowledge useful for oral examination also. In this edition, questions those have been occurred in the previous S.B.T.E. examination question papers have been added for reference and study of students accordingly.

Basic Electrical Engineering Infinity Educations

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.

Principles of Power System (LPSPE) RAJATH PUBLISHERS

For over 15 years "Principles of Electrical Machines" is an ideal text for students who look to gain a current and clear understanding of the subject as all theories and concepts are explained with lucidity and clarity. Succinctly divided in 14 chapters, the book delves into important concepts of the subject which include Armature Reaction and Commutation, Single-phase Motors, Three-phase Induction motors, Synchronous Motors, Transformers and Alternators with the help of numerous figures and supporting chapter-end questions for retention.

A Textbook of Electrical Engineering SK Kataria and sons

This Second Edition of Electrical Engineering book has been made to meet the requirements of candidates appearing in SSC-JE Mains (Paper-II). This volume covers the questions of the SSC-JE of the last 13 years (2004-2018) including of latest conduct exam of SSC-JE 2018. For easy understanding and to provide in-depth explanations, all questions has been classified in five subjects and each subject is again divided in topics, so that aspirants can adopt systemic approach of study. Subjects are prepared according to the syllabus of the SSC-JE which are electrical machines, power system, network theory, basic electronics and measurement. The book is also contain a topic-wise analysis of previous years questions of SSC-JE Mains exam which is necessary for proper strengthening of subjects.

Laboratory Manual for Basic Electrical Engineering New Age International

'BASICS OF ELECTRICAL ENGINEERING AND ELECTRONIC COMPONENTS' is intended to be used as a text book for I Semester Diploma in Electronics and Communication Engineering. This book is designed for comprehensively covering all topics relevant to the subject. Each and every topic has been explained in a very simple language as per the syllabus prescribed by the Board of Technical Education, Karnataka. This book is divided into eight chapters: Chapter 1 - Basics of Electricity Chapter 2 - Electrostatics Chapter 3 - Electromagnetic Induction Chapter 4 - AC Fundamentals Chapter 5 - AC Circuits Chapter 6 - Transformers Chapter 7 - Batteries, Relays and Motors Chapter 8 - Passive Components The text provides detailed explanations and uses numerous easy-to-follow examples accompanied by diagrams and step-by-step solutions. Illustrative problems are presented in terms of commonly used voltages and current ratings. To enhance the utility of the book, important points and review questions (objective and descriptive type) have been included at the end of each chapter. Model question papers have been provided to help students prepare better for the semester examinations. Multiple choice questions along with answers have been given towards the end of the book for the benefit of students taking up competitive tests. It is hoped that this book will be of immense use to teachers and students of Polytechnics. Suggestions for improvement in the future editions of this book will be appreciated. I wish to express my gratitude to MEI Polytechnic, Bangalore for providing me an opportunity to bring out this text book. I am grateful to Sri. Nitin S. Shah, M/s Sapna Book House, Bangalore for publishing this book. I am thankful to M/s Datalink, Bangalore for meticulous processing of the manuscript of this book.

A Course In Electrical Technology (B.E.E) Vol-I (12th Edition) S. Chand Publishing

Electrical Engineering is a Book for Electrical Diploma & Engineering Course, It contains objective questions with underlined & bold correct answers MCQ covering all topics including all about the latest Important about Applied Science, Electrical Machines, Estimation and Specification, Applied Mathematics, Computer-aided electrical drawing, Embedded system, Elements of electrical engineering, Electrical Power generation Industrial drives and control, Basic computer skills, Transmission and Distribution, Electrical energy utility and management, Electrical and Electronics circuits, Basic of programming, Electric motor control, Basic management skills and lots more.

Electrical Engineering S. Chand Publishing

Electrical Engineering is a simple e-Book for Electrical Diploma & Engineering Course Revised Syllabus in 2018, It contains objective questions with underlined & bold correct answers MCQ

covering all topics including all about the latest & Important about Applied Science, Electrical Machines, Estimation and Specification, Applied Mathematics, Computer-aided electrical drawing, Embedded system, Elements of electrical engineering, Electrical Power generation Industrial drives and control, Basic computer skills, Transmission and Distribution, Electrical energy utility and management, Electrical and Electronics circuits, Basic of programming, Electric motor control, Basic management skills and lots more.

Algebra and Trigonometry Pearson Education India

For engineering and scientific endeavors to progress there must be generally accepted ethical guidelines in place to which engineers and scientists must adhere. This book explores the various scientific and engineering disciplines, examining the potential for unethical behavior by professionals. Documented examples are presented to show where unethical behavior could have been halted before it became an issue. The authors also look to the future to see what is in store for professionals in the scientific and engineering disciplines and how the potential for unethical behavior can be negated.

BASICS OF ELECTRICAL ENGINEERING AND ELECTRONIC COMPONENTS PHI Learning Pvt. Ltd.

It Has Often Been Experienced That Students Are Required To Perform Experiments On Certain Topic Before The Relevant Theory Has Been Taught In The Class. A Laboratory Manual Which, In Addition To A Set Of Instructions For Performing Experiments, Includes Related Theory In Brief Could Help Students Understand Experiments Better. In Response Of Demand From A Large Number Of States For An Appropriate Laboratory Manual In Basic Electricity And Electrical Measurements, The T.T.I., Chandigarh, Has Prepared This Manual Which Has Been Tried Out In Various Polytechnics And Improved Based On The Feedback. The Basic Objective Of The Manual Is To Encourage Students To Perform Experiments Independently And Purposefully. The Manual Organises The Information To Enable The Students To Verify Known Concepts And Principles And To Follow Certain Procedures And Practices And Thereby Acquire Relevant Skills. Detailed Instructions For Carrying Out Each Experiment Alongwith Relevant Theory In Brief Have Been Given. The Objectives For Performing An Experiment Have Been Included At The Beginning Of Each Experiment. A List Of Questions Given At The End Of Each Experiment Will Help Students Evaluate His Own Understanding. The Manual Also Includes Guidelines For Students And Teachers For Its Effective Use. An Assessment Proforma Given At The Beginning Of The Manual May Be Used By The Teachers In Evaluating The Students.