

Basic Electrical Engineering

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.

Electrical Engineering Fundamentals Vincent Del Toro 1972

Basic Electrical Engineering John Shepherd 1961

Basic Electrical Engineering: Principles, Designs and Applications

Vibhav Kumar Sachan 2024-11-18 Basic Electrical Engineering:

Principles, Designs and Applications has been widely utilized in recent years in electrical engineering, microprocessors, electrical drives, and power electronics research, among other fields. This book aims to cater to the needs of the undergraduate courses in the discipline of Electronics & Communication Engineering, Electronics & Instrumentation Engineering, Electrical & Electronics Engineering, Instrumentation and Control Engineering and postgraduate students specializing in Electronics, Control Engineering. It will also serve as reference material for engineers employed in industry. The fundamental concepts and principles behind transformers, three-phase circuits and electrical generators and motors are explained in a simple, easy-to-understand manner. Each chapter contains a good number of short answers and of multiple-choice questions with explanation which makes the book quite useful for Indian Engineering Service (IES), Graduate Aptitude Test in Engineering (GATE), National Eligibility Test (NET), State Eligibility Test (SET), University Grants Commission- Council of Scientific & Industrial Research (UGC-CSIR) and other entrance examinations.

Basic Electrical Engineering | AICTE Prescribed Textbook (English) S.K. Sahdev 2021-08-27 This textbook "Basic Electrical Engineering" is based on the latest syllabus of the Universities, AICTE and Educational Institutes. In this edition, some material of the book has been rewritten to make the presentation easily comprehensible. More illustrative examples mainly from IAS, IES and GATE and other competitive examinations have been added. Various problems with answers have been added to support the text. For quick revision, summary/highlights are given at the end of each chapter. Salient Features: · DC Circuits · AC Circuits · Transformers · Electrical Machines · Power converters · Electrical Installations

Basic Electrical Engineering Arthur Eugene Fitzgerald 1981

Basic Electrical Engineering J. M. Shepherd 1964

Basic Electrical Engineering S. Sivanagaraju 2012

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.

Basic Electrical Engineering A. Kasatkin 1980

Basic Electrical and Electronics Engineering R.K. Rajput 2007

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 (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.

Basic Electrical Engineering David E. Higginbotham 1967

Basic Electrical and Electronics Engineering S. K. Bhattacharya 2011

This book provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level. Efforts have been taken to keep the complexity level of the subject to bare minimum so that the students of non electrical/electronics can easily understand the basics. It offers an unparalleled exposure to the entire gamut of topics such as Electricity Fundamentals, Network Theory, Electro-magnetism, Electrical Machines, Transformers, Measuring Instruments, Power Systems, Semiconductor Devices, Digital Electronics and Integrated Circuits.

Fundamentals of Electrical Engineering and Electronics BL Theraja

2006-06 This Book extensive pruning of the solved Examples in the text. Majority of the old examples have been replaced by questions set in the latest examination papers of different engineering colleges and technical institutions.

Electrical Engineering (For 1st Year of UPTU & UTU) Navani J.P. & Sapra Sonal Basic Of Concepts · D.C. Circuit Analysis · 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 Transformer · D.C. Machines · Induction Motors · Three Phase Synchronous Machines Papers Index

Experiments In Basic Electrical Engineering S.K. Bhattacharya 2007 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.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.

Basic Electricity 1970-01-01 Originally a training course text, this book now offers the best nontechnical coverage of the basic theory of electricity and its application. Topics include batteries, circuits, conductors, AC and DC, inductance and capacitance, generators, motors, transformers, amplifiers, and more. Includes many questions with answers. 349 illustrations. 1969 edition.

Basic Electrical Engineering 1960

Basic Electrical Engineering

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