

Basic Electrical Engineering Nagsarkar

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RHETT WEBER

Basic Electrical Engineering OUP India

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.

Basic Electrical Engineering and Electronics Tata McGraw-Hill Education

This third edition of Basic Electrical Engineering provides a lucid exposition of the principles of electrical engineering. The book provides an exhaustive coverage of topics such as network theory and analysis, magnetic circuits and energy conversion, ac and dc machines, basic analogue instruments, and power systems. The book also gives an introduction to illumination concepts.

Basic Electrical Engineering S. Chand Publishing

The primary objective of vol. I of A Text Book of Electrical Technology is to provide a comprehensive treatment of topics in Basic Electrical Engineering both for electrical as well as nonelectrical students pursuing their studies in civil, mechanical, mining, textile, chemical, industrial, environmental, aerospace, electronic and computer engineering both at the Degree and diploma level. Based on the suggestions received from our esteemed readers, both from India and abroad, the scope of the book has been enlarged according to their requirements. Almost half the solved examples have been deleted and replaced by latest examination papers set upto 1994 in different engineering collage and technical institutions in India and abroad.

Basic Electrical Engineering (Uptu) S. Chand Publishing

This Book Presents A Practical-Oriented, Sound, Modularized Coverage Of Fundamental Topics Of Basic Electrical Engineering, Network Analysis & Network Theorems, Electromagnetism & Magnetic Circuit, Alternating Current & Voltages, Electrical Measurement & Measuring Instrument And Electric Machines. Salient Features: # Clarification Of Basic Concepts # Several Solved Examples With Detailed Explanation # At The End Of Chapters, There Are Descriptive And Numerical Unsolved Problems # Written In Very Simple Language And Suitable For Self-Study # Step-By-Step Procedures Given For Solving Numerical

Basic Electrical Engineering Pearson Education India

'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.

Basic Electrical Engineering PHI Learning Pvt. Ltd.

In recent years Basic Electrical Engineering: Principles, Designs & Applications are being used extensively in Electrical Engineering, Microprocessor, Electrical Drives and Power Electronics research and many other things. This rapid progress in Electrical & Electronics Engineering has created an increasing demand for trained Electrical Engineering personnel. This book is intended for the undergraduate and postgraduate students specializing in Electronics Engineering. It will also serve as reference material for engineers employed in industry. The fundamental concepts and principles behind electronics engineering are explained in a simple, easy-to-understand manner. Each chapter contains a large number of solved example or problem which will help the students in problem solving and designing of Electronics system. This text book is organized into thirteen chapters. Chapter-1: AC and DC Circuit Analysis Chapter 2: Network Reduction and Network Theorems Chapter-3: Resonance and Coupled Circuits Chapter-4: Transformer Chapter-5: Three Phase Circuits Chapter-6: Electrical Generator and Motor Chapter- 7: Switchgear, Protection & Earthing System Chapter- 8: Electricity Usage Monitors, Power Factor Correction and Basics of Battery & Its applications The book Basic Electrical Engineering: Principles, Designs & Applications is written to cater to the needs of the undergraduate courses in the discipline of Electronics & Communication Engineering, Computer Science Engineering, Information Technology, Electronics & Instrumentation Engineering, Electrical & Electronics Engineering and postgraduate students specializing in Electronics. It will also serve as reference material for engineers employed in industry.

The fundamental concepts and principles behind of Transformer, Three Phase Circuits and Electrical Generator and Motor are explained in a simple, easy- to- understand manner. Each Chapter of book gives the design of Electrical Engineering that can be done by students of B.E./B.Tech/ M/Tech. level. Salient Features*Detailed coverage of AC and DC Circuit Analysis, Network Reduction and Network Theorems and Resonance and Coupled Circuits.*Comprehensive Coverage of Transformer, Three Phase Circuits and Electrical Generator and Motor.*Detailed coverage of Switchgear, Protection & Earthing System, Electricity Usage Monitors, Power Factor Correction and Basics of Battery & Its applications.*Each chapter contains a large number of solved example or objective type's problem which will help the students in problem solving and designing of Electrical Engineering.*Clear perception of the various problems with a large number of neat, well drawn and illustrative diagrams. *Simple Language, easy- to- understand manner. I do hope that the text book in the present form will meet the requirement of the students doing graduation in Electronics & Communication Engineering, Computer Science Engineering, Information Technology, Electronics & Instrumentation Engineering and Electrical & Electronics Engineering. I will appreciate any suggestions from students and faculty members alike so that we can strive to make the text book more useful in the edition to come.

Basics of Electrical Electronics and Communication Engineering Pearson Education India

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.

Basic Electrical Engineering Sapna Book House (P) Ltd. Principles of Basic Electrical Engineering provides a comprehensive coverage of the principles of electrical engineering for both electrical as well as non-electrical undergraduate students of engineering. Besides an exhaustive coverage of topics such as network theory and analysis, magnetic circuits and energy conversion, ac and dc machines, the book also covers power converters and inverters in detail. The book provides a chapter overview and recapitulation of important formulae in every chapter. It enables quick understanding of concepts through a wealth of well-illustrated figures and solved examples. It also supports numerous chapter-end exercises and multiple choice questions.

BASIC ELECTRICAL ENGINEERING RAJATH PUBLISHERS

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.

Basic Electrical Engineering Firewall Media

For the first time in India, we have a comprehensive introductory book on Basic Electrical Engineering that caters to undergraduate students of all branches of engineering and to all those who are appearing in competitive examinations such as AMIE, GATE and graduate IETE. The book provides a lucid yet exhaustive exposition of the fundamental concepts, techniques and devices in basic electrical engineering through a series of carefully crafted solved examples, multiple choice (objective type) questions and review questions. The book covers, in general, three major areas: electric circuit theory, electric machines, and measurement and instrumentation systems.

Basic Electrical Engineering (Jntu Ed) RAJATH PUBLISHERS

The book is written per the syllabus of first year engineering degree course for various universities. It covers basic topics of electrical engineering. It also includes worked out examples, University examination questions and answers, exercise, etc in every chapter. This book is suitable for course in basic electrical engineering under various Universities. Authors have tried to elucidate the topics in 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 the topics. Other features include attractive writing style, well structured equations and numerical examples, pictures of high clarity, etc.

Basic Electrical Engineering Independently Published

The book is written per the syllabus of first year engineering degree course for various universities. It covers basic topics of electrical and electronics engineering. It also includes worked out examples, University examination questions and answers, exercise, etc in every chapter. This book is suitable for course in basic electrical engineering under various Universities. Authors have tried to elucidate the topics in 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 the topics. Other features include attractive writing style, well structured equations and numerical examples, pictures of high clarity, etc. This book is one of the prescribed text books for the syllabus of Kerala University B. Sc Electronics course.

BASIC ELECTRICAL AND ELECTRONICS ENGINEERING Pearson Education India

Basic Electrical Engineering aimed at the students of Science and Engineering, covers a wide range of fundamentals of electrical engineering including, electrostatics, network theorems, three-phase and single-phase machines, introduction to three-phase power system, harmonics, filter, measurements and more. Point by point description Large number of numerical examples Multiple-choice-questions with answers Question papers with hints Laboratory experiments

Basic Concepts of Electrical Engineering Pearson Education India

Basic Electrical Engineering 2e provides a lucid exposition of the principles of electrical engineering for both electrical as well as non-electrical undergraduates of engineering. Students pursuing diploma courses as well as those appearing for AMIE examinations would also find this book extremely useful.

A Textbook of Electrical Technology - Volume I (Basic Electrical Engineering) I. K. International Pvt Ltd

The book is written per the syllabus of first year engineering degree course for various universities. It covers basic topics of electrical, electronics and communication engineering. It also includes worked out examples, University examination questions and answers, exercise, etc in every chapter. This book is suitable for course in basic electrical and electronics engineering under various Universities. Authors have tried to elucidate the topics in

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 the topics. Other features include attractive writing style, well structured equations and numerical examples, pictures of high clarity, etc. This book is one among prescribed textbooks for the syllabus of BIT, Mesra, Ranchi.

THEORY AND PROBLEMS OF BASIC ELECTRICAL ENGINEERING

New Age International

Bridges the gap in the knowledge of day-to-day applications of electrical engineering. It is divided into two parts. Part A covers circuit analysis and basic instrumentation; Part B deals with the concepts of electrical machines. Simple presentation of the topics with emphasis on important concepts is the essence of this book.

Basic Electrical Engineering CBS Publishers & Distributors Pvt Limited, India

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.

BASICS OF ELECTRICAL ENGINEERING AND ELECTRONIC

COMPONENTS Alpha Science International, Limited

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.

Basic Electrical Engineering Tata McGraw-Hill Education

This Book Is Written For Use As A Textbook For The Engineering Students Of All Disciplines At The First Year Level Of The B.Tech. Programme. The Text Material Will Also Be Useful For Electrical Engineering Students At Their Second Year And Third Year Levels. It Contains Four Parts, Namely, Electrical Circuit Theory, Electromagnetism And Electrical Machines, Electrical Measuring Instruments, And Lastly The Introduction To Power Systems. This Book Also Contains A Good Number Of Solved And Unsolved Numerical Problems. At The End Of Each Chapter References Are Included For Those Interested In Pursuing A Detailed Study.

Basic Electrical Engineering RAJATH PUBLISHERS

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