

Basic Electrical Engineering MI Anwani Tagnwag

Basic Electrical Engineering Practical Electrical Engineering Basic Electrical Engineering: Through Questions and Answers THEORY AND PROBLEMS OF BASIC ELECTRICAL ENGINEERING,, Second Edition The Indian Publisher and Bookseller Electrical Design Estimating and Costing BASIC ELECTRICAL ENGINEERING Principles of Power Electronics Engineering Applications of Neural Networks A Textbook of Electrical Technology Global Perspectives on Underutilized Crops Basic Electrical and Electronics Engineering: Electronics Fundamentals Electrical Measurement and Control (WBSCTE) Electrical Calculation with Worked Examples Indian Books in Print Generation of Electrical Energy, 7th Edition Electrical Networks Electrical Installation Estimating & Costing Electrical Machines Basic Engineering Drawing Novel Water Treatment and Separation Methods Lithium-ion Batteries Workshop Calculation & Science (Mechanical) Basic Electrical Engineering Power System Harmonics Electronics Theory (Rev. Ed.) (7 Th Edition) Basic Electrical Engineering Basic Electrical Engineering Basic Electrical Engineering Electrical Engineering Objective Electrical Technology Basic Electrical Engineering International Books in Print Workshop Practice Indian Books Phulkari from Punjab Embroidery in Transition Talk Your Way to Success with People Basic Electrical Engineering Electrical Engineering

Basic Electrical Engineering

Practical Electrical Engineering

Basic Electrical Engineering: Through Questions and Answers

THEORY AND PROBLEMS OF BASIC ELECTRICAL ENGINEERING,, Second Edition

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

The Indian Publisher and Bookseller

Electrical Design Estimating and Costing

BASIC ELECTRICAL ENGINEERING

This comprehensive book with a blend of theory and solved problems on Basic Electrical Engineering has been updated and upgraded in the Second Edition as per the current needs to cater 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 text 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.

Principles of Power Electronics

Engineering Applications of Neural Networks

A Textbook of Electrical Technology

"This is the first machine-generated scientific book in chemistry published by Springer Nature. Serving as an innovative prototype defining the current status of the technology, it also provides an overview about the latest trends of lithium-ion batteries research. This book explores future ways of informing researchers and professionals. State-of-the-art computer algorithms were applied to: select relevant sources from Springer Nature publications, arrange these in a topical order, and provide succinct summaries of these articles. The result is a cross-corpora auto-summarization of current texts, organized by means of a similarity-based clustering routine in coherent chapters and sections. This book summarizes more than 150 research articles published from 2016 to 2018 and provides an informative and concise overview of recent research into anode and cathode materials as well as further aspects such as separators, polymer electrolytes, thermal behavior and modelling. With this prototype, Springer Nature has begun an innovative journey to explore the field of machine-generated content and to find answers to the manifold questions on this fascinating topic. Therefore it was intentionally decided not to manually polish or copy-edit any of the texts so as to highlight the current status and remaining boundaries of machine-generated content. Our goal is to initiate a broad discussion, together with the research community and domain experts, about the future opportunities, challenges and limitations of this technology."--Publisher's website.

Global Perspectives on Underutilized Crops

This book constitutes the refereed proceedings of the 19th International Conference on Engineering Applications of Neural Networks, EANN 2018, held in Bristol, UK, in September 2018. The 16 revised full papers and 5 revised short papers presented were carefully reviewed and selected from 39 submissions. The papers are organized in topical sections on activity recognition, deep learning, extreme learning machine, machine learning applications, predictive models, fuzzy and recommender systems, recurrent neural networks, spiking neural networks.

Basic Electrical and Electronics Engineering:

Electronics Fundamentals

Electrical Measurement and Control (WBSCTE)

Electrical Calculation with Worked Examples

Indian Books in Print

Generation of Electrical Energy, 7th Edition

Electrical Networks

Harmonic distortion problems include equipment overheating, motor failures, capacitor failure and inaccurate power metering. The topic of power system harmonics was covered for the first time 20 years ago and the first edition has become a standard reference work in this area. Unprecedented developments in power electronic devices and their integration at all levels in the power system require a new look at the causes and effects of these problems, and the state of hardware and software available for harmonic assessment. Following the successful first edition, this second edition of Power System Harmonics maintains the practical approach to the subject and discusses the impact of advanced power electronic technology on instrumentation, simulation, standards and active harmonic elimination techniques. Features include: A new chapter on modern digital instrumentation techniques. Added sections on active filters and modern distorting devices such as FACTS devices, multilevel conversion, current source, voltage source inverters and turn-OFF-related power electronic devices. References to international standards for harmonics and inter-harmonics. Numerical examples of technique application. Offering a comprehensive understanding of power systems, this book is an asset to power engineers involved in the planning, design and operation of power system generation, transmission and distribution. Researchers and postgraduate students in the field will also benefit from this useful reference.

Electrical Installation Estimating & Costing

Electrical Machines

Basic Engineering Drawing

The Subject Electrical Design Estimating And Costing Covers An Important Functional Area Of An Electrical Diploma Holder. The Subject Is Taught In Various

Forms In Different States. In Some States, It Is Covered Under Two Subjects, Namely, Electrical Design & Drawing And Electrical Estimating & Costing. In Some States It Is Taught As An Integrated Subject But Is Split Into Two Or Three Parts To Be Taught In Different Semesters. To Cater To The Needs Of Polytechnics Of Different States, The Content Of The Course Has Been Developed By Consulting The Curricula Of Various State Boards Of Technical Education In The Country. In Addition To Inclusion Of Conventional Topics, A Chapter On Motor Control Circuits Has Been Included In This Book. This Topic Is Of Direct Relevance To The Needs Of Industries And, As Such, Finds Prominent Place In The Curricula Of Most Of The States Of India. The Book Covers Topics Like Symbols And Standards, Design Of Light And Fan Circuits, Alarm Circuits, Panel Boards Etc. Design Of Electrical Installations For Residential And Commercial Buildings As Well As Small Industries Has Been Dealt With In Detail. In Addition, Design Of Overhead And Underground Transmission And Distribution Lines, Sub-Station And Design Of Illumination Schemes Have Also Been Included. The Book Contains A Chapter On Motor Circuit Design And A Chapter On Design Of Small Transformers And Chokes. The Book Contains Theoretical Explanations Wherever Required. A Large Number Of Solved Examples Have Been Given To Help Students Understand The Subject Better. The Authors Have Built Up The Course From Simple To Complex And From Known To Unknown. Examples Have Generally Been Taken From Practical Situations. Indeed, Students Will Find This Book Useful Not Only For Passing Examinations But Even More During Their Professional Career.

Novel Water Treatment and Separation Methods

Lithium-ion Batteries

This book has been written with total focus on meeting the objectives of the subject 'Electrical Measurement and Control' as given by the syllabus of WBSCTE. The text has been written so as to create interest in the minds of students in learning further. After reading this book the student will be able to:

- Identify the sub-systems of a complete instrumentation system and explain the function of each
- Select the correct transducer for receiving the measurement system input
- Explain the basic signal conditioning processes, data transmission techniques, data storage and display devices
- Understand the working of control devices used in motor controls and process controls
- Represent a control system in a simplified block diagram form using transfer function
- Determine the stability conditions of a system using stability study criteria and explain the use of different types of controllers

Workshop Calculation & Science (Mechanical)

Electrical Engineering Essence 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 Analysis Basic 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, Thevenin's, Maximum power transfer theorems and simple problems. Magnetic Circuits Basic 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 Quantities Principle 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. Transformers Principles of operation, Constructional details, Ideal Transformer and Practical Transformer, Losses, Transformer Test, Efficiency and Regulation Calculations. Direct current machines Principle 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. Machines Three phase induction motor, principle of operation, Slip and rotor frequency, Torque (simple problems). Synchronous Machines Principle of operation, EMF equation (Simple problems on EMF). Synchronous motor principle and operation (Elementary treatment only) Basic Instrument Classification of instruments, Operating principles, Essential features of measuring instruments, Moving coil permanent magnet (PMMC) instruments, Moving Iron of Ammeters and Voltmeters (elementary treatment only).

Basic Electrical Engineering

Power System Harmonics

Generation of Electrical Energy is written primarily for the undergraduate students of electrical engineering while also covering the syllabus of AMIE and act as a refresher for the professionals in the field. The subject itself is now rejuvenated with important new developments. With this in view, the book covers conventional topics like load curves, steam generation, hydro-generation parallel operation as well as new topics like new sources of energy generation, hydrothermal coordination, static reserve reliability evaluation among others.

Electronics Theory (Rev. Ed.) (7 Th Edition)

Basic Electrical Engineering

Basic Electrical Engineering

Workshop Practice has been expanding explosively during the past decade and the

initial concept of this book was simply to collate some of the newer and easy applicable methods particularly those involving some degree of automation. This plan was altered in favour of treatise that not only brings workshop methodology up-to-date but also includes representative protocols for the application of these techniques. Accordingly, over a hundred authors have pooled their efforts to produce this volume. In so doing, the mutual hope is that it will serve as a reference portfolio to help both the novice and veteran research get on with the job in an inspired efficient and productive manner. On the whole graduating students of most streams of Engineering may find interest in this book and will benefit having one at hand. In the preparation of this book large number of books and research papers have been consulted. So many authenticity is claimed. The author wishes to express to express his deepest appreciation to the many people who have contributed in one way or the other to the preparation of the title. The author will greatly appreciate having his attention called to any questionable statement. Contents: General Introduction, Material Testing Treatment and Properties, Engineering Materials, Metals and Alloys/ Nonferrous, Carpentry Shop and Wood Working Tools, Benchwork and Fitting Shop, Welding Shop, Sheet Metal Work.

Basic Electrical Engineering

Increase in world population, extreme weather conditions, decrease in fresh water supplies, and changes of dietary habits are major issues that affect global food security. We are expected to face the challenges of land use by 2050 because population will reach 9 billion while agricultural productivity losses are expected due to overuse of lands. How can we feed the next generations in a manner that respects our finite natural resources? Managing our resources in a sustainable way have only begun for selected crops. Much remains to be done to increase food yield. Cropping practices capable of sustainable production need to be elaborated, especially in fragile ecosystems. Typical applications will include the improvement and use of genetic resources; crop management and diversification; diffusion of improved varieties; development of cropping systems; sustainable cropping systems for areas prone to environmental degradation; use of agro-ecological data for crop production forecasting; and networks for regional coordination, and data exchange. The impetus behind this book is to bring attention to a cropping system that bears direct relevance to sustainable agriculture and food security.

“Underutilized” crops are found in numerous agricultural ecosystems and often survive mainly in marginal areas. It is timely to review their status because, in recent decades, scientific and economic interests have emerged which focus on lesser-known cultivated species. Underutilized crops have a great potential to alleviate hunger directly, through increasing food production in challenging environments where major crops are severely limited. “Global Perspectives on Underutilized Crops” is therefore topical and highlights the unmet agricultural challenges that we face today. This book is an important resource for students and researchers of crop science and agricultural policy makers.

Electrical Engineering

Objective Electrical Technology

This text provides optional computer analysis exercises in selected examples, troubleshooting sections, & applications assignments. It uses frank explanations & limits maths to only what's needed for understanding electric circuits fundamentals.

Basic Electrical Engineering

International Books in Print

Workshop Practice

In the present edition, authors have made sincere efforts to make the book up-to-date. A notable 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.

Indian Books

This textbook provides comprehensive, in-depth coverage of the fundamental concepts of electrical engineering. It is written from an engineering perspective, with special emphasis on circuit functionality and applications. Reliance on higher-level mathematics and physics, or theoretical proofs has been intentionally limited in order to prioritize the practical aspects of electrical engineering. This text is therefore suitable for a number of introductory circuit courses for other majors such as mechanical, biomedical, aerospace, civil, architecture, petroleum, and industrial engineering. The authors' primary goal is to teach the aspiring engineering student all fundamental tools needed to understand, analyze and design a wide range of practical circuits and systems. Their secondary goal is to provide a comprehensive reference, for both major and non-major students as well as practicing engineers.

Phulkari from Punjab Embroidery in Transition

Talk Your Way to Success with People

Basic Electrical Engineering

Electrical Engineering

Due to increasing demand for potable and irrigation water, new scientific research is being conducted to deal with wastewater from a variety of sources. Novel Water Treatment and Separation Methods: Simulation of Chemical Processes presents a

selection of research related to applications of chemical processes for wastewater treatment, separation techniques, and modeling and simulation of chemical processes. Among the many topics are: degradation of herbicide removal of anionic dye efficient sun-light driven photocatalysis removal of copper and iron using green activated carbon defluoridation of drinking water removal of calcium and magnesium from wastewater using ion exchange resins degradation of vegetable oil refinery wastewater novel separation techniques, including microwave-assisted extraction and more The volume presents selected examples in wastewater treatment, highlighting some recent examples of processes such as photocatalytic degradation, emulsion liquid membrane, novel photocatalyst for degradation of various pollutants, and adsorption of heavy metals. The book goes on to explore some novel separation techniques, such as microwave-assisted extraction, anhydrous ethanol through molecular sieve dehydration, batch extraction from leaves of *Syzygium cumini* (known as jambul, jambolan, jamblang or jamun), and reactive extraction. These novel separation techniques have proved be advantageous over conventional methods. The volume also looks at modeling and simulation of chemical processes, including chapters on flow characteristics of novel solid-liquid multistage circulating fluidized bed, mathematical modeling and simulation of gasketed plate heat exchangers, optimization of the adsorption capacity of prepared activated carbon, and modeling of ethanol/water separation by pervaporation, along with topics on simulation using CHEMCAD software. The diverse chapters share and encourage new ideas, methods, and applications in ongoing advances in this growing area of chemical engineering and technology. It will be a valuable resource for researchers and faculty and industrialists as well as for students.

[ROMANCE](#) [ACTION & ADVENTURE](#) [MYSTERY & THRILLER](#) [BIOGRAPHIES & HISTORY](#) [CHILDREN'S](#) [YOUNG ADULT](#) [FANTASY](#) [HISTORICAL FICTION](#) [HORROR](#) [LITERARY FICTION](#) [NON-FICTION](#) [SCIENCE FICTION](#)