

# Basic Electrical Engineering Mittal

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## Engineering Basics: Electrical, Electronics and Computer Engineering Routledge

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.

## *Electrical and Mechanical Services in High Rise Buildings: Design and Estimation Manual (HB)* New Age International

Designed For Entry-Level Engineering Students, This Book Presents A Thorough Exposition Of Electrical, Electronics, Computer And Communication Engineering. Simple Language Has Been Used Throughout The Book And The Fundamental Concepts Have Been Systematically Highlighted \* This Edition Includes New Chapters On \* Transmission And Distribution \* Communication Services \* Linear And Digital Integrated Circuits \* Sequential Logic System \* The Book Also Includes \* Large Number Of Diagrams For A Clear Understanding Of The Subject \* Cumerous Solved Examples Illustrating Basic Concepts And Techniques \* Exercises And Review Questions With Answers \* Revision Formulae For Quick Review And Recall All These Features Make This Book An Ideal Text For Both Degree And Diploma Students Engineering.

## High Performance Polymers and Engineering Plastics S. Chand Publishing

This book describes advances in synthesis, processing, and technology of environmentally friendly polymers generated from renewable resources. With contents based on a wide range

of functional monomers and contributions from eminent researchers, this volume demonstrates the design, synthesis, properties and applications of plant oil based polymers, presenting an elaborate review of acid mediated polymerization techniques for the generation of green polymers. Chemical engineers are provided with state-of-the-art information that acts to further progress research in this direction.

## Basic Electrical Installation Work IGI Global

"This book provides an excellent, well-balanced collection of areas where Bayesian networks have been successfully applied; it describes the underlying concepts of Bayesian Networks with the help of diverse applications, and theories that prove Bayesian networks valid"--Provided by publisher.

## Basic Electrical Engineering Rupa Publications

The revised and extended papers collected in this volume represent the cutting-edge of research at the nexus of electrical engineering and intelligent systems. They were selected from well over 1000 papers submitted to the high-profile international World Congress on Engineering held in London in July 2011. The chapters cover material across the full spectrum of work in the field, including computational intelligence, control engineering, network management, and wireless networks. Readers will also find substantive papers on signal processing, Internet computing, high performance computing, and industrial applications. The Electrical Engineering and Intelligent Systems conference, as part of the 2011 World Congress on Engineering was organized under the auspices of the non-profit International Association of Engineers (IAENG). With more than 30 nations represented on the conference committees alone, the Congress features the best and brightest scientific minds from a multitude of disciplines related to engineering. These peer-reviewed papers demonstrate the huge strides currently being taken in this rapidly developing field and reflect the excitement of those at the frontiers of this research.

**Basic Electricity** Pearson College Division Student assessment in online learning is submitted remotely without any face-to-face interaction, and therefore, student authentication is widely seen as one of the major challenges in online examination. Authentication is the process of determining whether someone or something is, in fact, who or what it is declared to be. As the

dependence upon computers and computer networks grows, especially within education, the need for authentication has increased. Biometric Authentication in Online Learning Environments provides innovative insights into biometrics as a strategy to mitigate risk and provide authentication, while introducing a framework that provides security to improve e-learning and on-line examination by utilizing biometric-based authentication techniques. This book examines e-learning, security, threats in online exams, security considerations, and biometric technologies, and is designed for IT professionals, higher education administrators, professors, researchers, business professionals, academicians, and libraries seeking topics centered on biometrics as an authentication strategy within educational environments.

## *Objective Electrical Engineering 2017*

Pearson Education India

Everything needed to pass the first part of the City & Guilds 2365 Diploma in Electrical Installations. Basic Electrical Installation Work will be of value to students taking the first year course of an electrical installation apprenticeship, as well as lecturers teaching it. The book provides answers to all of the 2365 syllabus learning outcomes, and one chapter is dedicated to each of the five units in the City & Guilds course. This edition is brought up to date and in line with the 18th Edition of the IET Regulations: It can be used to support independent learning or a college based course of study Full-colour diagrams and photographs explain difficult concepts and clear definitions of technical terms make the book a quick and easy reference Extensive online material on the companion website [www.routledge.com/cw/linsley](http://www.routledge.com/cw/linsley) helps both students and lecturers

## **Basic Electrical Engineering** Routledge

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.  
Objective Electrical Engineering By GK Mithal  
New Age International

One of the most comprehensive, clearly written books on electronic technology, Simpon's invaluable guide offers a concise and practical overview of the basic principles, theorems, circuit behavior and problem-solving procedures of this intriguing and fast-paced science. Examines a broad spectrum of topics, such as atomic structure, Kirchhoff's laws, energy, power, introductory circuit analysis techniques, Thevenin's theorem, the maximum power transfer theorem, electric circuit analysis, magnetism, resonance semiconductor diodes, electron current flow, and much more. Smoothly integrates the flow of material in a nonmathematical format without sacrificing depth of coverage or accuracy to help readers grasp more complex concepts and gain a more thorough understanding of the principles of electronics. Includes many practical applications, problems and examples emphasizing troubleshooting, design, and safety to provide a solid foundation in the field of electronics. An ideal reference source for electronic engineering technicians and those involved in the electronic technology field.

**Principles of Electronics** Springer  
The International Council on Systems Engineering (INCOSE) defines Systems Engineering as an interdisciplinary approach and means to enable the realization of successful systems. Researchers are using intelligence-based techniques to support the practices of systems engineering in an innovative way. This research volume includes a selection of contributions by subject experts to design better systems.

Electrical Engineering and Intelligent Systems Upkar Prakashan

A comprehensive text that reviews the methods and technologies that explore emergent behavior in complex systems engineering in multidisciplinary fields In Emergent Behavior in Complex Systems Engineering, the authors present the theoretical considerations and the tools required to enable the study of emergent behaviors in manmade systems. Information Technology is key to today's modern world. Scientific theories introduced in the last five decades can now be realized with the latest computational infrastructure. Modeling and simulation, along with Big Data technologies are at the forefront of such exploration and investigation. The text offers a number of simulation-based methods, technologies, and approaches that are designed to encourage the reader to incorporate simulation technologies to further their understanding of emergent behavior in complex systems. The authors present a resource for those designing,

developing, managing, operating, and maintaining systems, including system of systems. The guide is designed to help better detect, analyse, understand, and manage the emergent behaviour inherent in complex systems engineering in order to reap the benefits of innovations and avoid the dangers of unforeseen consequences. This vital resource: Presents coverage of a wide range of simulation technologies Explores the subject of emergence through the lens of Modeling and Simulation (M&S) Offers contributions from authors at the forefront of various related disciplines such as philosophy, science, engineering, sociology, and economics Contains information on the next generation of complex systems engineering Written for researchers, lecturers, and students, Emergent Behavior in Complex Systems Engineering provides an overview of the current discussions on complexity and emergence, and shows how systems engineering methods in general and simulation methods in particular can help in gaining new insights in complex systems engineering.

**Electrical Engineering** Oxford Series in Electrical and Computer Engineering  
Basic Electrical Engineering Fundamentals of Electrical Engineering Laxmi Publications, Ltd. Basic Electrical Engineering New Age International

A Textbook of Electrical Technology - Volume IV IGI Global

REA's Handbook of Basic Electricity  
The material in this handbook was prepared for electrical training courses. It is a practical manual that enables even the beginner to grasp the various topics quickly and thoroughly. REA's Handbook of Basic Electricity is one of a kind in that it teaches the concepts of basic electricity in a way that's clear, to-the-point, and very easy to understand. It forms an excellent foundation for those who wish to proceed from the basics to more advanced topics. Numerous illustrations are included to simplify learning theories and their applications. Direct-current and alternating-current devices and circuits are explained in detail. Magnetism, as well as motors and generators are described to give the reader a thorough understanding of them. The Handbook of Basic Electricity is an excellent resource for the layperson as well as licensed electricians.

**Electrical Engineering Theory (3 Rd Edition)** Springer Nature  
Suhaani is enjoying her independent status in the US and her sexy Indian American boyfriend, when suddenly she loses her job to recession. And shes forced to move back to India where her father has selected a boy for

her from his guitar class. Suhaani doesn't know how to tell her Internet-savvy dad and Farmville- addict mother that she's not interested in an arranged match, especially to an IITian. She decides to dislike the guy. Except that hes not too thrilled about her either. Even when they end up working together, Suhaani decides she will not fall for this guy. But before she can turn him down, he rejects her!

*Let's Have Coffee* S. Chand Publishing  
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.

**Biometric Authentication in Online Learning Environments** John Wiley & Sons

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

**Basic Electrical Engineering** CRC Press

This book presents select proceedings of the National Conference on Renewable Energy and Sustainable

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Environment (NCRESE 2020) and examines a range of reliable energy-efficient harvesting technologies, their applications and utilization of available alternate energy resources. The topics covered include alternate energy technologies, smart grid topologies and their relevant issues, solar thermal and bio-energy systems, electric vehicles and energy storage systems and its control issues. The book also discusses various properties and performance attributes of advance renewable energy techniques and impact on environmental sustainability. The book will be useful for researchers and professionals working in the areas of energy and sustainable environment and the allied fields.

Intelligent-Based Systems Engineering  
Springer Nature

The present book has been thoroughly revised and lot of useful material has been added. Several photographs of electronic devices and their specifications sheets have been included. This will help the students to have a better understanding of the electronic devices and circuits from application point of view. The mistake and misprints, which have crept in, have been eliminated in this edition.

**Handbook of Basic Electricity** John Wiley & Sons

Based on the authors' expansive collection of notes taken over the years, Nano-CMOS Circuit and Physical Design bridges the gap between physical and circuit design and fabrication processing, manufacturability, and yield. This innovative book covers: process technology, including sub-wavelength optical lithography; impact of process scaling on circuit and physical implementation and low power with leaky transistors; and DFM, yield, and the impact of physical implementation.

*Manufacturing Processes* Penguin UK  
GKP's 'Objective' series has been used by engineering students over the years to prepare for GATE, PSU examinations and campus recruitment tests. The series includes five books i.e. Computer Science and IT, Electrical, Electronics and Communication, Mechanical and Civil. In order to make students thorough with the variety of questions, each book in this series provides them with questions segregated into two sections. The first section includes a set of practice exercise under each topic and the second section provides previous year's questions of

exams such as GATE and various PSUs exams. Each question in the later section has been tagged with the exam name to make the preparation all the more easier. This combination of conceptual questions and previous year's questions would completely solve the purpose of the students for a quick practice with complete preparation for the exam. The books in this series will also be helpful to prepare for the technical section of various campus recruitment tests.