

# Basic Electrical Engineering

## By V N Mittle Free

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### **Electrical Design Estimating and Costing** - K. B. Raina 2007

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.

*Basic Electrical Engineering* - Sahdev SK 2015

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 and Electronics Engineering:** -

S.K. Bhattacharya

*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

**Spotlight on Modern Transformer Design** - Pavlos Stylianos Georgilakis  
2009-07-30

Spotlight on Modern Transformer Design introduces a novel approach to transformer design using artificial intelligence (AI) techniques in combination with finite element method (FEM). Today, AI is widely used for modeling nonlinear and large-scale systems, especially when explicit mathematical models are difficult to obtain or completely lacking. Moreover, AI is computationally efficient in solving hard optimization problems. Many numerical examples throughout the book illustrate the application of the techniques discussed to a variety of real-life transformer design problems, including:

- problems relating to the prediction of no-load losses;
- winding material selection;
- transformer design

optimisation; • and transformer selection. Spotlight on Modern Transformer Design is a valuable learning tool for advanced undergraduate and graduate students, as well as researchers and power engineering professionals working in electric utilities and industries, public authorities, and design offices.

**Electrical Measurements and Measuring Instruments** - R. K. Rajput 2009-09

This treatise on the subject Electrical Measurements and Measuring Instruments contains comprehensive treatment of the subject matter in simple, lucid and direct language. It covers the syllabi of the various Indian Universities in this subject exhaustively.

**Design of Electrical Machines** - K. G. Upadhyay  
2011-07

**Electrical Engineering (For 1st Year of UPTU & UTU)** - Navani J.P. & Sapra Sonal 2013  
Basic Of Concepts • D.C. Circuit Analysis • Network Theorem • A. C. Fundamentals • Analysis Of Single Phase A.C.

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Circuit • Three Phase A.C.  
Circuit • Measuring  
Instruments • Introduction To  
Power System • Magnetic  
Circuits • Single Phase  
Trasformer • D.C. Machines •  
Induction Motors • Three  
Phase Synchronus Machaines  
Papers Index

**Manufacturing Processes -**

H. N. Gupta 2012-09  
Effective from 2008-09 session,  
U.P.T.U. has introduced the  
subject of manufacturing  
processes for first year  
engineering students of all  
streams. This textbook covers  
the entire course material in a  
distilled form.

Objective Electrical Technology

- Rohit Mehta 2008  
In the present edition,authors  
have made sincere efforts to  
make the book up-to-date.A  
noteable 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.

**Basic electrical Engineering**

- Arthur E. Fitzgerald 1945

*THEORY AND PROBLEMS OF  
BASIC ELECTRICAL*

*ENGINEERING,, Second  
Edition - NAGRATH, I. J.*

2016-08-19

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.  
*Electrical Machines - S. K.  
Sahdev 2017-11-24*  
Offers key concepts of  
electrical machines embedded  
with solved examples, review

questions, illustrations and open book questions.  
*IETE Technical Review* - 1992

*Fundamentals of Electrical Engineering* - Dr. Yaduvir Singh 2010-02

**Non-Conventional Energy Resources (For UPTU & UTU)** - Navani J.P. & Sapra Sonal 2015

This book entitled " Non Conventional Energy Resources " has been written for B.E /B.Tech final year students of UPTU(Kucknow), MTU, GBTU and UTU(Dehradun). The book uses simple and lucid language to explain fundamentals of this subject.

**Design Of Electrical Machines** - V. N. Mittle 2005-01-01

Basic Consideration in Design \* Electrical Materials \* Magnetic Circuit Calculations \* Heating and Cooling H Design of Transformers \* Review Questions of Transformer Design H Armature Winding for D.C. Machines \* Design of D.C. Machines H Design of

D.C. Motor Starter H Review Questions in Design of D.C. Machines H A.C. Armature Winding H Design of 3-Phase Induction Motors \* Single phase Induction Motors \* Review Questions of Induction Motors \* Design of Synchronous Machines \* Short Questions on Design of Synchronous Machines \* Computer Aided Design of Electrical Machines \* Design of Lifting Magnets \* Viva-voce Questions \* Appendix \* Standard Specifications and Design Data.

**Basic Electrical Engineering** - Ramesh L Chakrasali 2010

**Basic Electricity** - Van Valkenburgh, Nooger & Neville 1954

**There are No Electrons** -

Kenn Amdahl 1991  
Offers an entertaining introduction to the physics of electricity.

**A Textbook of Electrical Technology - Volume IV** - BL Theraja 2006

A Textbook of Electrical Technology(Vol.

IV) Multicolor pictures have been added to enhance the content value and give to the students an idea of what he will be dealing in reality and to bridge the gap between theory and practice. A notable feature is the inclusion of chapter on Flip-Flops and related Devices as per latest development in the subject. Latest tutorial problems and objective type questions specially for GATE have been included at relevant places.

*ABC of Electrical Engineering - Malika Jain 2008*

The book is meant for B.E./B.Tech./B.Sc. (Engg.) students of Indian universities. Theoretical portions have been explained in simple language, together with large number of illustrative diagrams. Contains many tutorial problems drawn from various universities. Also included is a special feature to test your understanding and know the type of theoretical questions asked in the examinations.

Electrical Machine Drives Control - Juha Pyrhonen  
2016-10-10

This comprehensive text examines existing and emerging electrical drive technologies. The authors clearly define the most basic electrical drive concepts and go on to explain the most important details while maintaining a solid connection to the theory and design of the associated electrical machines. Also including links to a number of industrial applications, the authors take their investigation of electrical drives beyond theory to examine a number of practical aspects of electrical drive control and application. Key features: \* Provides a comprehensive summary of all aspects of controlled-speed electrical drive technology including control and operation. \* Handling of electrical drives is solidly linked to the theory and design of the associated electrical machines. Added insight into problems and functions are illustrated with clearly understandable figures. \* Offers an understanding of the main phenomena associated

with electrical machine drives.  
\* Considers the problem of bearing currents and voltage stresses of an electrical drive. \* Includes up-to-date theory and design guidelines, taking into account the most recent advances. This book's rigorous coverage of theoretical principles and techniques makes for an excellent introduction to controlled-speed electrical drive technologies for Electrical Engineering MSc or PhD students studying electrical drives. It also serves as an excellent reference for practicing electrical engineers looking to carry out design, analyses, and development of controlled-speed electrical drives.

**Hughes Electrical Technology** - Edward Hughes  
1995-01-01

Covering the fundamentals of electrical technology and using these to introduce the application of electrical and electronic systems, this text had been updated to include recent developments in technology. It avoids

unnecessary mathematics and features improved teaching aids, including: worked examples; updated and graded review questions; colour diagrams and chapter summaries. It is designed for use by students on NC, HNC and HND courses in electrical and electronic engineering.  
*Basic And Applied Thermodynamics* - P. K. NAG  
2009

**Electrical Engineering Fundamentals** - Vincent Del Toro  
1986-01-01

A manual on the basic concepts of electrical engineering includes discussions of circuit elements, network theory, digital systems, and feedback control

**Basic Electrical and Electronics Engineering** - B. R. Patil  
2012

*Basic Electrical Engineering* - Nagsarkar  
2018-09-06  
This third edition of Basic Electrical Engineering provides a lucid exposition of the principles of electrical engineering. The book provides

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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.

### **Send Down the Rain -**

Charles Martin 2018-05-08

Can two people brought together by desperate circumstances help one another heal, and maybe even begin a new life? New York Times bestselling author Charles Martin's *Send Down the Rain* answers the questions of what it means—and what level of sacrifice it takes—to truly love someone. Allie is still recovering from the loss of her family's beloved waterfront restaurant on Florida's Gulf Coast when she loses her second husband to a terrifying highway accident. Devastated and losing hope, she shudders to contemplate the future—until a cherished person from her past returns. Joseph has been adrift for many years, wounded in both

body and spirit and unable to come to terms with the trauma of his Vietnam War experiences. Just as he resolves to abandon his search for peace and live alone in a remote cabin in the Carolina mountains, he discovers a mother and her two small children lost in the forest. A man of character and strength, he instinctively steps in to help them get back to their home in Florida. There he will return to his own hometown—and witness the accident that launches a bittersweet reunion with his childhood sweetheart, Allie. When Joseph offers to help Allie rebuild her restaurant, it seems the flame may reignite—until a forty-five-year-old secret begins to emerge, threatening to destroy all hope for their second chance at love. *Send Down the Rain* will take you on a journey that spans the sweltering migrant worker routes of south Florida, muddy battlefields of Vietnam, thickets of northwest North Carolina, and the idyllic shores of America's most beautiful beach (Cape San



Blas). At the story's center lies the question: What does it mean—and what level of sacrifice does it take—to truly love someone? Praise for *Send Down the Rain*: "Charles Martin understands the power of story and he uses it to alter the souls and lives of both his characters and his readers."—Patti Callahan Henry, *New York Times* bestselling author  
*Full-length, stand-alone novel Includes discussion questions for book clubs*  
Also by bestselling author Charles Martin: *The Mountain Between Us*, *Chasing Fireflies*, *When Crickets Cry*, and *The Letter Keeper*  
*Testing Commissioning Operation & Maintenance Of Electrical Equipments* - Rao 2004

*Advances in VLSI, Communication, and Signal Processing* - David Harvey  
2020-10-14

This book comprises select peer-reviewed papers from the International Conference on VLSI, Communication and Signal processing (VCAS)

2019, held at Motilal Nehru National Institute of Technology (MNNIT) Allahabad, Prayagraj, India. The contents focus on latest research in different domains of electronics and communication engineering, in particular microelectronics and VLSI design, communication systems and networks, and signal and image processing. The book also discusses the emerging applications of novel tools and techniques in image, video and multimedia signal processing. This book will be useful to students, researchers and professionals working in the electronics and communication domain.  
*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.

### **Experimentation, Viva-Voice On Electrical Machines -**

Mittle V.N. 2004-01-01

Fundamentals of Experimentation \* Basic Experiments in Electrical Engineering \* Fundamentals of D.C. Machine \* Experimentation on D.C. Machine \* Fundamentals of Transformer \* Experimentation on Transformers \* Fundamentals of Induction Motor \* Experimentation on Induction Motors \* Fundamentals of Synchronous Machine \* Experimentation on Synchronous Machines \* Viva-Voce Questions (with answer) on Fundamentals of Electrical Engineering \* Viva-voce Questions on D.C. Machines \* Viva-voce Questions on

Transformer \* Viva-voce Questions on Induction Motor \* Viva-voce Questions on Synchronous Machines  
*Fundamentals of Electrical and Electronics Engineering | AICTE Prescribed Textbook - English - Susan S. Mathew*  
2021-11-01

Fundamentals of Electrical & Electronics Engineering” is a compulsory paper for the first year Diploma course in Engineering & Technology Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome based education. Books covers six topics- Overview of Electronics Components and Signals. Overview of Analog Circuits. Overview of Digital Electronics, Electric and magnetic Circuits, A.C. Circuits and Transformer and Machines. Each topic is written in easy and lucid manner. A set of exercises at the end of each unit to test the student’s comprehension is provided. Some salient features of the book: | Content of the

book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes. | The practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem solving capacity. | Book provides lots of vital facts, concepts, principles and other interesting information. | QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided. | Student and teacher centric course materials included in book in balanced manner. | Figures, tables, equations and comparative charts are inserted to improve clarity of the topics. | Objective questions and subjective questions are given for practices of students at the end of each unit. Solved and unsolved problems including numerical examples are solved with systematic steps

**Basics of Electrical Electronics and Communication Engineering**

- Dr. K. A. Navas 2010-08-01

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.

**Fermentation Processes Engineering in the Food Industry** - Carlos Ricardo

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Soccol 2013-03-27

With the advent of modern tools of molecular biology and genetic engineering and new skills in metabolic engineering and synthetic biology, fermentation technology for industrial applications has developed enormously in recent years. Reflecting these advances, *Fermentation Processes Engineering in the Food Industry* explores the state of the art of the engineering technology aspects of fermentation processes in diverse food sectors. The book describes the benefits of fermented foods in human health in both dairy and non-dairy products and beverages. It examines applications of microalgae in the food industry and explains the application of metabolic engineering in the production of fermented food ingredients. Exploring a host of important topics in engineering fermentation processes, the book covers topics such as: Methods and techniques for the isolation, improvement, and preservation of the microbial cultures used in the food

fermentation industry The fundamentals of fermentation processes, modes of fermentation, and the principles of upstream operation Physical and chemical factors that affect fermentation processes Different types of fermenters employed in submerged and solid-state fermentation Unitary operations for solid-liquid separation, concentration, and drying of fermented foods Instrumentation and control of industrial fermentation processes The final chapter discusses the potential application of a biorefinery concept to add value to food industry wastes and presents a case study describing an integrated project in which the concept was applied. An essential reference for all food sector professionals, this volume surveys critical trends in the food, beverage, and additive industry and explores the sustainability of these processes.

**ELEMENTS OF ELECTRICAL ENGINEERING - M. MARIA**

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LOUIS 2014-01-01

There has been overwhelming response from the readers of this text. Based on their feedback and suggestions, this book has been enlarged and thoroughly revised in its Fifth Edition. Besides updating the sixteen chapters of the previous edition, it now incorporates ten new chapters dealing with synchronous machines, single/three phase motors, ac commutator motors and stepper motors. The present text, written in a lucid style, is the culmination of more than four decades of the author's long experience in teaching of electrical engineering subjects, especially electrical machines at undergraduate and postgraduate levels. Key features

- Easy to follow, understand and implement.
- Includes about 440 worked-out examples.
- Contains 721 MCQs (with answers) to help students measure their understanding and analysing skills and evaluate their knowledge.
- Offers about 515 chapter-end exercises with

answers to build problem solving skills and gain hands-on experience and self-confidence.

- Includes many real-life examples to enable students to analyse and implement theoretical concepts in real-life situations.
- Difficult concepts like commutation explained in great detail so as to make students grasp concept with clear understanding. The book is primarily designed for undergraduate and postgraduate students of Electrical and Electronics Engineering. Besides, the students of all other branches of engineering will find this text useful for their course study.

Basic Electrical and Electronics Engineering - R.K. Rajput 2007

**Basic Electrical Engineering**  
- V. N. Mittle 1990

**Basic Electrical Engineering**  
- C. L. Wadhwa 2007-01-01

*Basic Concepts of Electrical Engineering* - P S

Subramanyam 2016-09

An earnest attempt has been

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made in the book 'Basic Concepts of Electrical Engineering' to elucidate the principles and applications of

Electrical Engineering and also its importance, so as to evince interest on the topics so that the student gets motivated to study the subject with interest.