

# Basic Electrical Engineering

## By V N Mittle

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*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: 1 Content of the  
book aligned with the mapping  
of Course Outcomes, Programs  
Outcomes and Unit Outcomes. 1  
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. 1  
Book provides lots of vital  
facts, concepts, principles and  
other interesting information. 1  
QR Codes of video resources  
and websites to enhance use of  
ICT for relevant supportive  
knowledge have been provided.  
1 Student and teacher centric  
course materials included in  
book in balanced manner. 1  
Figures, tables, equations and  
comparative charts are  
inserted to improve clarity of

the topics. 1 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  
*Basic Electrical and Electronics  
Engineering* - R.K. Rajput 2007

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

**Electrical Engineering** -  
Allan R. Hambley 2011  
For undergraduate  
introductory or survey courses  
in electrical engineering.  
**ELECTRICAL ENGINEERING:  
PRINCIPLES AND  
APPLICATIONS, 5/e** helps  
students learn electrical-  
engineering fundamentals with  
minimal frustration. Its goals  
are to present basic concepts  
in a general setting, to show  
students how the principles of  
electrical engineering apply to  
specific problems in their own  
fields, and to enhance the  
overall learning process.  
Circuit analysis, digital  
systems, electronics, and

electromechanics are covered. A wide variety of pedagogical features stimulate student interest and engender awareness of the material's relevance to their chosen profession.

Principles of Electrical Machines - VK Mehta | Rohit Mehta 2008

For over 15 years "Principles of Electrical Machines" is an ideal text for students who look to gain a current and clear understanding of the subject as all theories and concepts are explained with lucidity and clarity. Succinctly divided in 14 chapters, the book delves into important concepts of the subject which include Armature Reaction and Commutation, Single-phase Motors, Three-phase Induction motors, Synchronous Motors, Transformers and Alternators with the help of numerous figures and supporting chapter-end questions for retention.

**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 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.

**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

**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  
*BASIC ELECTRICAL AND  
ELECTRONICS ENGINEERING*

- Dr. K. A. Navas 2011-08-01

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 Engineering**

- C. L. Wadhwa 2007-01-01

### **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.

**Position Sensors** - David S. Nyce 2016-05-20

A resource on position sensor technology, including background, operational theory, design and applications This book explains the theory and applications of the technologies used in the measurement of linear and angular/rotary position sensors. The first three chapters provide readers with the necessary background information on sensors. These chapters review: the working definitions and conventions used in sensing technology; the

specifications of linear position transducers and sensors and how they affect performance; and sensor output types and communication protocols. The remaining chapters discuss each separate sensor technology in detail. These include resistive sensors, cable extension transducers, capacitive sensors, inductive sensors, LVDT and RVDT sensors, distributed impedance sensors, Hall Effect sensors, magnetoresistive sensors, magnetostrictive sensors, linear and rotary encoders, and optical triangulation position sensors. Discusses sensor specification, theory of operation, sensor design, and application criteria Reviews the background history of the linear and angular/rotary position sensors as well as the underlying engineering techniques Includes end-of-chapter exercises Position Sensors is written for electrical, mechanical, and material engineers as well as engineering students who are interested in understanding sensor technologies.

**Objective Electrical Engineering** - P. K. Mishra  
2010-09

**IETE Technical Review** -  
1992

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.

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

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

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

**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.

**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.

Basic Electricity - Van Valkenburgh, Nooger & Neville 1954

### **Networks and Systems -**

Ashfaq Husain 2015

This book is intended to serve as a textbook for BE., B. Tech, students of Electrical, Electronics, Computer, Instrumentation, Control and communication Engineering. It will also serve as a text reference for the students of diploma in Engineering. AMIE, GATE, UPSC Engineering services, IAS candidate would also find the book extremely useful. Subject matter in each chapter developed systematically from first

principles. Written in a very simple language. Simple and clear explanation of concepts. Large number of carefully selected worked examples. Most simplified methods used. Step-by-step procedures given for solving problems. Ideally suited for self-study.

**Abc Of Electrical Engineering** - Malika Jain 2008

The book is meant for 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 test your understanding and know the type of theoretical questions asked in the examinations.

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. 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

*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.

Fermentation Processes Engineering in the Food Industry - Carlos Ricardo 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 chemicals 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.

### **BASIC ELECTRICAL**

**ENGINEERING** - Dr. K. A.

Navas 2016-08-01

This book is prepared as per the syllabus of VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Karnataka for first year B. Tech (Engineering) course using the reference

books given in the course syllabus. Authors have tried to elucidate the topics 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 topics.

*ELEMENTS OF ELECTRICAL ENGINEERING* - M. MARIA 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.

**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.

**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. I covers the syllabi of  
the various Indian Universities  
in this subject exhaustively.

**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.

**Basic And Applied  
Thermodynamics** - P. K. NAG  
2009

**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

*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.

*Objective Electrical Technology* - Rohit Mehta 2008

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.

*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-Stations 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 and Electronics Engineering** - B. R. Patil 2012

**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 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

**Basic electrical Engineering** - Arthur E. Fitzgerald 1945