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# Basic Electrical Engineering Books

**Ian McKenzie Smith**



## **Basic Electrical Engineering Books:**

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

**Basic Electrical and Electronics Engineering** S. K. Bhattacharya, 2011 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** S. Sivanagaraju, P. V. Prasad, 2012

**Basic Electrical Engineering** A. Kasatkin, 1980

Basic Electrical Engineering (Vel Tech) SK Sahdev, 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 Engineering* J. M. Shepherd, 1964

**Basic Electrical Engineering** John Shepherd, 1961

**Basic Electrical Engineering** Arthur Eugene Fitzgerald, David E. Higginbotham, Arvin Grabel, 1981

*Basic Electrical Engineering* David E. Higginbotham, 1967

**Basic Electrical Engineering. 2.ed** A. Kasatkin, M. Perekalin, G. Yankovsky, 1970

**Basic Electrical Engineering Science** Ian Mackenzie Smith, 1978

*Basic Electrical Engineering* Uday A Bakshi, Varsha U Bakshi, 2013

Basic Electrical Engineering Arthur Eugene Fitzgerald, David E. Higginbotham, 1967

*Basic Electrical Engineering* Arthur Eugene Fitzgerald, David E. Higginbotham, Arvin Grabel, 1981-01-01

**Basic Electrical Engineering Science** Ian McKenzie Smith, 1984

**Basic Electrical Engineering** J. P. Tiwari, 2012-06

**Basic Electrical and Electronics Engineering Precise V.** Jegathesan, 2012-10

*Basic Electrical Engineering* John Shepherd, Alexander Hugh Morton, Lyndon Foster Spence, 1958

*Basic Electrical Engineering* Robert H. Nau, 1992-01-01

**Basic Electrical Engineering** SINGH, S. N., 2010-10-30

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.

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