

# Electrical Engineering By Sk Sahdev

????????????????,??8?.?1????????????????,????????;?2????????????;?3????????????????  
?????;?4????????,????,????????????;?5????????????,????????????,????????PLC?;?6????????????  
?????,????????????????,??PI,PD,PID?????;?7????????????????;?8????????LabVIEW?VisSim??  
?.

???-?????34??  
??????  
?????????????  
?????:?????

Electrical and instrumentation engineering is changing rapidly, and it is important for the veteran engineer in the field not only to have a valuable and reliable reference work which he or she can consult for basic concepts, but also to be up to date on any changes to basic equipment or processes that might have occurred in the field. Covering all of the basic concepts, from three-phase power supply and its various types of connection and conversion, to power equation and discussions of the protection of power system, to transformers, voltage regulation, and many other concepts, this volume is the one-stop, "go to" for all of the engineer's questions on basic electrical and instrumentation engineering. There are chapters covering the construction and working principle of the DC machine, all varieties of motors, fundamental concepts and operating principles of measuring, and instrumentation, both from a "high end" point of view and the point of view of developing countries, emphasizing low-cost methods. A valuable reference for engineers, scientists, chemists, and students, this volume is applicable to many different fields, across many different industries, at all levels. It is a must-have for any library.

??  
????????????????????????????????????,??C++????????????????????????????????????  
????????????????????,????????????,????????????????????????????????????,?????????  
????????:????????,????????,????????????,????????????????????,????????????????  
??????

An extensive and easy-to-read guide covering the fundamental concepts of electrical machines, highlighting transformers, motors, generators and magnetic circuits. It provides in-depth discussion on construction, working principles and applications of various electrical machines. The design of transformers, functioning of generators and performance of induction motors are explained through descriptive illustrations, step-by-step solved examples and mathematical derivations. A separate chapter on special purpose machines offers important topics such as servomotors, brushless motors and stepper motors, which is useful from industrial perspective to build a customized machine. Supported by 400 solved examples, 600 figures, and more than 1000 self-assessment exercises, this is an ideal text for one or two-semester undergraduate courses on electrical machines under electrical and electronics engineering.

This textbook "Basic Electrical Engineering" is based on the latest syllabus of the Universities, AICTE and Educational Institutes. In this edition, some material of the book has been rewritten to make the presentation easily comprehensible. More illustrative examples mainly from IAS, IES and GATE and other competitive examinations have been added. Various problems with answers have been

added to support the text. For quick revision, summary/highlights are given at the end of each chapter. Salient Features: - DC Circuits - AC Circuits - Transformers - Electrical Machines - Power converters - Electrical Installations

Offers key concepts of electrical machines embedded with solved examples, review questions, illustrations and open book questions.

?????????:?????????,?????????,??,???,???,?????????,?????????,?????????.

?????:Computer methods for circuit analysis and design

Although, a number of books, written by various authors on the subject are available in the market. However, the author feels that this book will facilitate the students not only to prepare for the regular University examinations. The book is also quite suitable for the professionals since many live examples have been incorporated. The book has the following exclusive features: (i) The Learning objectives of each chapter have been incorporated in the beginning to develop curiosity among the students. (ii) Practice exercise have been added in all the chapters after suitable intervals to impart necessary practice. (iii) At the end of each chapter, its summary highlights are given. This will enable the students to revise the subject matter quickly. (iv) A number of short answer and test questions have been given at the end of each chapter. While answering these questions, the readers will have to think deep into the subject matter. This will improve their analytical approach. Consequently, the students/readers will be in position to respond in a better way while appearing before the selection board or to deal with practical problems. (v) A sufficient number of objective type questions (MCQ) have been given at the end of each chapter. These questions will help the students to perform better in the competitive examinations. (vi) The subject matter is treated in a simple and lucid manner so that an average student can understand the subject easily. Although, typical mathematical expressions are avoided but simple mathematical relations are used for better explanation and understanding.

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.

????????????????????,???PLA?PLA?GAL?PLD?????????TTL?ECL?CMOS?????????10?,??????????  
??  
?????CMOS????????????????,????CMOS????????????,????????????????,?MOSFET????????????  
?,????CMOS????????,?????,?????,??,????????????,?????,????????????,????????,????????????????,????  
?????????????????????.????????????????????,?????????????????  
????????????????????  
????????????????????

??Holt,Rinchart and Winston 1983?????????. -- ??: Modern digital and analog communication systems/B. P. Lathi

Basic Electrical Engineering Pearson Education India

Copyright: [3340575534713aad85cf394568b5d2b3](https://www.pdfdrive.com/electrical-engineering-by-sk-sahdev.pdf)