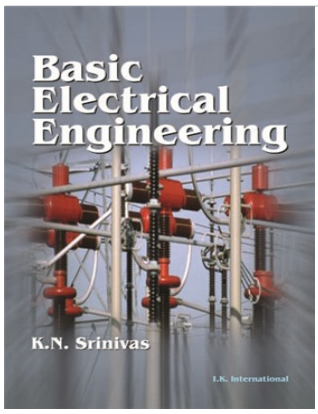
Book Information Sheet



Basic Electrical Engineering, 1/e

K N Srinivas

2008 | 376 pp | Paperback | ISBN: 9788189866341 | Price: 325.00

About the Book

The aim of this book is to provide a consolidated text for the first year B.E. Computer Science and Engineering students and B.Tech Information Technology students of Anna University. The syllabus has been thoroughly revised for the non-semester yearly pattern by the University. The book, made up of five chapters, systematically covers the five units of the syllabus. It begins with a detailed discussion on the fundamentals of electric circuits. DC circuits, AC circuits, 3-phase circuits, resonance and the network theorems. Lecture-type presentation of the rudiments of the fundamentals in conjunction with hundreds of solved examples is the strength of this book. Magnetic circuits and various magnetic elements and their properties, with number of illustrations are presented. DC machines and transformers are further dealt with. Equivalent circuits of machines supported with the respective photographs will ease the reader to understand the concepts of machines much better. Synchronous machines and asynchronous machines and fundamentals of control systems with various practical examples and relevant worked illustrations conclude this book. A large number of numerical illustrations and diagrammatic representations make this book valuable for students and teachers.

Salient Features

- Divided into five chapters, it explains basic electricity, magnetism and electromagnetism, electric machines (DC machines and transformer), AC machines, and control system.
- Includes numerous numerical illustrations and diagrammatic representations.
- Chapters include solved and unsolved examples at the end.

Table of Contents

1- Preface
2- Basic Electricity
3- Magnetism and Electromagnetism
4- Electric Machines
5- AC Machines
6- Control System
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About the Author

K N Srinivas :- K.N. Srinivas is currently working as Professor in BSA Crescent Engineering College, Chennai, Tamilnadu, India. He has authored two textbooks on fundamentals of electrical engineering. He had visited various countries such as Japan, Singapore, USA, Malaysia to present his research findings in various IEEE international forums. His papers won best technical paper awards in IEEE international conferences, one in Japan (IECON-2000) and the other in America (IECON-2003) He has more than 10 international IEEE transactions publications out of his continuous research in the areas of electric machines. His research areas are electric machines and drives, power electronics and power systems. He is presently supervising six Ph.D. candidates.