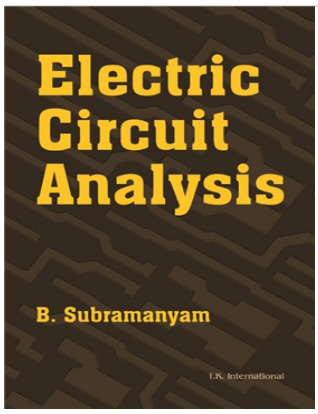
Book Information Sheet



Electric Circuit Analysis, 1/e

B. Subramanyam

2009 | 748 pp | Paperback | ISBN: 9788189866440 | Price: 475.00

About the Book

Electric Circuit Analysis provides a comprehensive and critical analysis of electrical circuits for better understanding of the physical systems using electrical simulating systems. It helps the students of EEE and ECE to thoroughly know the state-of-the-art of this subject. Each chapter functions as a stand-alone guide to a critical topic. Most of the important topics covered in this book provide greater details, to use them properly in understanding of electrical machines, power systems, control systems, electronic devices and circuits, pulse digital and power electronic circuits. A large number of solved numerical problems selected from GATE, UPSE and other university examinations are included. A large section of MCQs is included at the end of the book. This book is suitable for undergraduate courses in Electrical Engineering and Electronics and Communication Enginnering. It is also useful for practising engineers and those appearing for Engineering Services Examinations like GATE, UPSE, etc.

Salient Features

Salient Features:

- Provides an exhaustive treatment of principles of electric circuit and network concepts.
- Covers Mesh and Nodal equations for different networks in detail.
- Includes about 400 worked numerical problems within the chapters.
- A special section on “Examples” contains 202 examples with solutions, along with 100 objective type questions with answer key.
- Further explains Dual Networks in the book-end appendix.

Table of Contents

- Network Components and Network Equations
- Network Topology
- Sinusoidal Steady State Analysis of Electrical Circuits
- Transient Response of Electrical Circuits
- Resonance in AC Circuits
- Locus Diagrams
- Fourier Analysis of AC Circuits
- Polyphase Circuits
- Network Theorems
- Two-Port Parameters
- Network Functions
- Appendix
- Index

About the Author

B. Subramanyam :- B. Subramanayam is Director, Nalanda Group of Institutions, Sattenapali (M) Guntur, Andhra Pradesh. He obtained his Ph.D. (1977) from National Institute Technology, Warangal, Andhra Pradesh. With more than 34 years of teaching and research experience, he has guided many Ph.D. and M. Tech. Students. He has many awards to his credit including the Best Teacher Award (2003) by the Govt. of Andhra Pradesh.

He is a member of various professional bodies and has served as an expert for UPSC Engineering Services. He has contributed more than 35 papers in various journals of international and national repute.