



NETWORK THEORY

SECOND EDITION

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KEY SELLING POINTS

- ◆ Authors have extensive experience gained while teaching network theory for a number of years.
- ◆ A full explanation of network and circuit theory in one volume

BOOK INFORMATION

ISBN: 1 904798 047
Pub Date: November 2004
Format: Hardback
Extent: 672 pages

A book on network analysis is generally one of the basic texts a student of engineering refers to. While currently available books on the subject adequately cover the different facets the authors feel that there is still a need for a book which provides all the necessary material required by the students of electrical and electronic engineering at one place for a solid foundation in the area of Circuit Theory. The purpose of writing this book is therefore to fulfil this requirement.

The material presented in this book can be covered adequately in two semesters. The authors have tried to present the concepts of network analysis in a lucid way so that a student reading this book will be able to understand the subject easily. No prerequisites other than a rudimentary knowledge of physics including the concepts of electricity and magnetism are necessary.

Contents: Network variables & elements; Kirchoff's laws & resistive networks; Differential equations & initial conditions in RLC networks; RL and RC networks; Response of RLC networks; Laplace transform method of analysis of networks; Single phase circuits; Polyphase circuits; Network theorems; Two port networks; Network topology; Network filters, attenuators & equalizers; Circuit analysis using spice.