

Preface

The theory of electric circuit analysis includes a great number of cases that are usually difficult for a student to understand them easily. However, to fully understand the operation of electric circuits should the concepts, laws, mathematical relationships and methods of analysis circuit must be fully understood by the students. Although a circuit theory book usually contains a number of solved examples, these are not cover sufficiently the theory and the techniques used in the analysis of electrical circuits. It is required training of students by solving a significant number of additional problems, many of which must present significant difficulties.

The primary aim of this book is to give analytical answers on many theoretical issues through the solution of considerable number of selected and challenging problems in circuits theory. Emphasis has been given on understanding not only the theorems but also the basic techniques applied in the analysis of electric circuits. Thus, each problem is analytically solved by choosing the most appropriate technique. When students successfully complete the study of this book, they will have a good working knowledge of basic circuit principles and a demonstrated ability to solve a variety of circuit-related problems.

I hope this book will be of help for the students and would become a useful tool for their study.

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