

<<Essentials Of Circui>>

图书基本信息

书名：<<Essentials Of Circuit Analysis电路分析基础>>

13位ISBN编号：9780131911970

10位ISBN编号：013191197X

出版时间：2003-5

出版时间：Prentice-Hall

作者：Boylestad, Robert

页数：832

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

## <<Essentials Of Circui>>

### 内容概要

The inspiration for this one-of-a-kind text grew from Bob Boylestad's desire to provide students with a comprehensive learning tool that hones in on the most important circuit analysis concepts in an exciting and fresh manner. This same vision has resulted in a completely new publishing endeavor by the author and Prentice Hall-a text that delivers all of the essential knowledge a student should carry away from an introductory DC/AC circuits course in one concise, practical, engaging volume. Ancillaries written for this text include: Experiments in Circuit Analysis, a lab manual Lab Solutions Manual Text Solutions Manual Prentice Hall TestGen, a computerized test bank PowerPoint® Transparencies Companion Website, <http://www.prenhall.com/boylestad> Electronics Supersite, <http://www.prenhall.com/electronics>

<<Essentials Of Circui>>

书籍目录

CHAPTER I: Introduction OBJECTIVES 1.1 The Electrical-Electronics Industry 1.2 A Brief History 1.3 Units of Measurement 1.4 Systems of Units 1.5 Powers of Ten 1.6 Conversion between Levels of Powers of Ten 1.7 Conversion within and between Systems of Units 1.8 Symbols 1.9 Conversion Tables 1.10 Calculators 1.11 Computer Analysis 1.11 Computer (PC) Specifications CHAPTER SUMMARY I IMPORTANT EQUATIONS I PROBLEMS I GLOSSARY CHAPTER 2: Current and Voltage OBJECTIVES 2.1 Introduction 2.2 Atoms and Their Structure 2.3 Voltage 2.4 Current 2.5 Voltage Sources 2.6 Ampere-Hour Rating 2.7 Battery Life Factors 2.8 Conductors and Insulators 2.9 Semiconductors 2.10 Ammeters and Voltmeters 2.11 Applications 2.12 Computer Analysis CHAPTER SUMMARY I IMPORTANT EQUATIONS I PROBLEMS I GLOSSARY CHAPTER 3: Resistance OBJECTIVES 3.1 Introduction 3.2 Resistance 3.3 Wire Tables 3.4 Temperature Effects 3.5 Superconductors 3.6 Types of Resistors 3.7 Color Coding and Standard Resistor Values 3.8 Conductance 3.9 Ohmmeters 3.10 Applications 3.11 Mathcad CHAPTER SUMMARY I IMPORTANT EQUATIONS I PROBLEMS I GLOSSARY CHAPTER 4: Ohm's Law, Power, and Energy OBJECTIVES 4.1 Introduction 4.2 Ohm's Law 4.3 Power 4.4 Energy 4.5 Efficiency 4.6 Plotting Ohm's Law 4.7 Circuit Breakers, GFCIs, and Fuses 4.8 Application 4.9 Computer Analysis CHAPTER SUMMARY I IMPORTANT EQUATIONS I PROBLEMS I GLOSSARY Chapter 5: Series dc Circuits OBJECTIVES 5.1 Introduction 5.2 Series Resistors 5.3 Series Circuits 5.4 Power Distribution in a Series Circuit 5.5 Voltage Sources in Series 5.6 Kirchhoff's Voltage Law 5.7 Voltage Division in a Series Circuit 5.8 Voltage Regulation and the Internal Resistance of Voltage Sources 5.9 Loading Effects of Instruments 5.10 Protoboards (Breadboards) 5.11 Applications 5.12 Computer Analysis CHAPTER SUMMARY I IMPORTANT EQUATIONS I PROBLEMS I GLOSSARY Chapter 6: Parallel dc Circuits Chapter 7: Series-Parallel Circuits Chapter 8: Methods of Analysis and Selected Topics (dc) Chapter 9: Network Theorems Chapter 10: Capacitors Chapter 11: Inductors Chapter 12: Sinusoidal Alternating Waveforms Chapter 13: The Basic Elements and Phasors Chapter 14: Series and Parallel ac Circuits Chapter 15: Series-Parallel ac Networks and the Power Triangle Chapter 16: ac Methods of Analysis and Theorems Chapter 17: Resonance and Filters Chapter 18: Transformers and Three-Phase Systems Appendixes Index

<<Essentials Of Circui>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>