



## Fundamentals of Electric Circuits(5th English Edition)

By Charles K. Alexander . Matthew N.O. Sadiku

China Machine Press, 2013. Soft cover. Book Condition: New. 5th or later Edition. Pages :905 Language:English Contents PART 1 DC Circuits Chapter 1 Basic Concepts 1.1 Introduction 1.2 Systems of Units 1.3 Charge and Current 1.4 Voltage 1.5 Power and Energy 1.6 Circuit Elements 1.7?Applications 1.7.1 TV Picture Tube 1.7.2 Electricity Bills 1.8?Problem Solving 1.9 Summary Review Questions Problems Comprehensive Problems Chapter 2 Basic Laws 2.1 Introduction 2.2 Ohms Law 2.3?Nodes, Branches, and Loops 2.4 Kirchhoffs Laws 2.5 Series Resistors and Voltage Division 2.6 Parallel Resistors and Current Division 2.7?Wye-Delta Transformations 52 Delta to Wye Conversion Wye to Delta Conversion 2.8?Applications 2.8.1 Lighting Systems 2.8.2 Design of DC Meters 2.9 Summary 64 Review Questions 66 Problems 67 Comprehensive Problems Chapter 3 Methods of Analysis 3.1 Introduction 3.2 Nodal Analysis 3.3 Nodal Analysis with Voltage Sources 3.4 Mesh Analysis 3.5 Mesh Analysis with Current Sources 3.6?Nodal and Mesh Analyses by Inspection 3.7 Nodal Versus Mesh Analysis 3.8 Circuit Analysis with PSpice 3.9?Applications: DC Transistor Circuits 3.10 Summary Review Questions Problems Comprehensive Problem Chapter 4 Circuit Theorems 4.1 Introduction 4.2 Linearity Property 4.3 Superposition 4.4 Source Transformation 4.5 Thevenins Theorem 4.6 Nortons Theorem 4.7?Derivations of Thevenins and Nortons Theorems 4.8 Maximum Power...



**READ ONLINE**  
[ 1.37 MB ]

### Reviews

*Extensive guideline! Its this sort of excellent read. it had been writtern quite properly and helpful. You can expect to like just how the writer create this book.*

-- **Mr. Gustave Gerhold**

*This book will never be straightforward to start on reading through but quite enjoyable to learn. Better then never, though i am quite late in start reading this one. Your lifestyle span will probably be convert once you complete reading this publication.*

-- **Dr. Kadin Hane DVM**