

- 1 Introduction
- Part I Converters in Equilibrium
- 2 Principles of Steady State Converter Analysis
- 3 Steady-State Equivalent Circuit Modeling, Losses, and Efficiency
- 4 Switch Realization
- 5 The Discontinuous Conduction Mode
- 6 Converter Circuits Part II Converter Dynamics and Control
- 7 AC Equivalent Circuit Modeling
- 8 Converter Transfer Functions
- 9 Controller Design Part III Magnetics
- 10 Basic Magnetics Theory
- 11 Inductor Design
- 12 Transformer Design Part IV Advanced Modeling, Analysis, and Control Techniques
- 13 Techniques of Design Oriented Analysis: The Feedback Theorem
- 14 Circuit Averaging, Averaged Switch Modeling and Simulation
- 15 Equivalent Circuit Modeling of the Discontinuous Conduction Mode
- 16 Techniques of Design Oriented Analysis: Extra Element Theorems
- 17 Input Filter Design
- 18 Current Programmed Control
- 19 Digital Control of Switched-Mode Power Converters Part V Modern Rectifiers and Power System Harmonics
- 20 Power and Harmonics in Nonsinusoidal Systems
- 21 Pulse-Width Modulated Rectifiers Part VI Resonant Converters
- 22 Resonant Conversion
- 23 Soft Switching
- Appendices