第一图书网, tushu007.com

<<电路分析基础>>

图书基本信息

书名：<<电路分析基础>>

13位ISBN编号：9787121179198

10位ISBN编号：7121179199

出版时间：2012-8

出版时间：电子工业出版社

作者：（美）尼尔森，（美）里德尔　著，张民　改编

页数：396

字数：757000

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

第一图书网, tushu007.com

<<电路分析基础>>

内容概要

书由浅入深、系统全面地讲解了电子电路及电子系统的基本元件、基本概念、基本分析理论和计算方法，主要内容包括电路基本元件、简单电阻电路分析、电路常见分析法、运算放大器基本应用电路、一阶和二阶电路的分析、正弦稳态分析及其功率计算、平衡三相电路、选频电路及滤波器等。此外，本书结合多年教学经验和生活中的实际应用，给出了大量例题和习题、详尽的图表资料和丰富的实用电路范例。

第一图书网, tushu007.com

<<电路分析基础>>

书籍目录

chapter 1 circuit variables and circuit elements .
1.1 circuit analysis: an overview
1.2 voltage, current, and the basic circuit elements
1.3 the ideal basic circuit element
1.4 power and energy
1.5 voltage and current sources
1.6 electrical resistance (ohmos law)
1.7 kirchhoffos laws
1.8 analysis of a circuit containing dependent sources
chapter 2 some circuit simplification techniques
2.1 source transformations
2.2 superposition
chapter 3 techniques of circuit analysis
3.1 terminology
3.2 introduction to the node-voltage method
3.3 the node-voltage method and dependent sources
3.4 the node-voltage method: some special cases
3.5 introduction to the mesh-current method
3.6 the mesh-current method and dependent sources
3.7 the mesh-current method: some special cases
.3.8 the node-voltage method versus the mesh-current method
3.9 thvenin and norton equivalents
3.10 more on deriving a thvenin equivalent
3.11 maximum power transfer
chapter 4 the operational amplifier ..
4.1 operational amplifier terminals
4.2 terminal voltages and currents
4.3 the inverting-amplifier circuit
4.4 the summing-amplifier circuit
4.5 the noninverting-amplifier circuit
4.6 the difference-amplifier circuit
4.7 the comparator
chapter 5 the natural and step response of rl and rc
circuits
5.1 the inductor
5.2 the capacitor
5.3 series-parallel combinations of inductance and
capacitance
5.4 natural response of rl and rc circuits
5.5 step response of rl and rc circuits
5.6 the integrating amplifier
chapter 6 natural and step responses of rlc circuits
6.1 introduction to the natural response of a parallel rlc
circuit
6.2 the forms of the natural response of a parallel rlc

第一图书网, tushu007.com

circuit
6.3 the step response of a parallel rlc circuit
6.4 the natural and step response of a series rlc circuit
chapter 7 sinusoidal steady-state analysis
7.1 the sinusoidal source
7.2 the sinusoidal response
7.3 the phasor
7.4 the passive circuit elements in the frequency domain
7.5 kirchhoffos laws in the frequency domain
7.6 circuit simplifications
7.7 the node-voltage method
7.8 the mesh-current method
7.9 instantaneous, average, and reactive power
7.10 the rms value and power calculations
7.11 complex power and power calculations
chapter 8 balanced three-phase circuits
8.1 balanced three-phase voltages
8.2 three-phase voltage sources
8.3 analysis of the wye-wye circuit
8.4 analysis of the wye-delta circuit
8.5 power calculations in balanced three-phase circuits
8.6 measuring average power in three-phase circuits
chapter 9 introduction to frequency selective circuits
9.1 some preliminaries
9.2 low-pass filters
9.3 high-pass filters
9.4 bandpass filters
9.5 bandreject filters

第一图书网, tushu007.com

<<电路分析基础>>

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