

<<数字系统>>

图书基本信息

书名：<<数字系统>>

13位ISBN编号：9787030325129

10位ISBN编号：7030325125

出版时间：2012-1

出版时间：科学出版社

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页数：956

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内容概要

本书对现代数字系统的原理和技术进行了全面的论述，既讲述了数字系统的基本原理，又涵盖了应用数字电路设计中传统的和现代的设计方法及开发技术，包括如何处理系统层面的设计问题。另外，在提供数字电路和系统的所有重要基础内容的同时，还介绍了现在以及未来职业生涯中所需的很多实用工具。

《数字系统原理及应用(第11版英文影印版)》在内容体系上，先以符号和框图的形式讨论基本逻辑运算，分析组合逻辑电路及时序逻辑电路，在读者理解了数字电路的基本原理之后，再来讨论门电路及触发器的内部电路和电特性；同时，硬件描述语言(AHDL和vHDL)贯穿于各章节之中，不仅用来描述基本逻辑器件，而且用于设计简单的数字系统。

此外，本书给出了丰富的例题、复习题、习题，每章末还有小结及重要术语，便于教学和自学。

本书可作为电类各专业信号与系统课程的取语教材或参考书，也可供工程技术人员参考。

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章节摘录

版权页：插图：What did the information look like ?

Figure 1-2 shows a graph of the voltage pulses on the telegraph wire as the telegrapher presses and releases the code key (current flow through the wire could have been graphed as well and would be of the same waveshape as voltage). Notice the nature of the pulses. The electric signal is either on or off at all times. This relates to modern digital systems that use electrical signals to represent 1s and 0s. The information is encoded in the width (length of time) of each pulse and the sequence of pulses. Pulse waveforms like this are used extensively to describe the activity in digital systems. Since the x axis is time, these graphs are referred to as timing diagrams. A timing diagram shows which state (1 or 0) the system is in at any point in time, and it also shows the exact time when a change in state occurs.

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编辑推荐

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