

<<数字与模拟通信系统>>

图书基本信息

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前言

Continuing the tradition of the first through the sixth editions of Digital and Analog Communication Systems , this new edition provides the latest up-to-date treatment of digital communication systems. It includes numerous updates and new sections on satellite radio broad-casting systems , cable data modems , and wireless data networks , such as Wi-Fi (IEEE 802.11) and Wi-Max (IEEE 802.16) systems. It is written as a textbook for junior or senior engineering students and is also appropriate for an introductory graduate course or as a modern technical reference for practicing electrical engineers. For the first time a Student Solutions Manual is available for download on the web. Go to [http : //lcouch.us](http://lcouch.us) or [http : //couch.ece.ul.edu](http://couch.ece.ul.edu).

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内容概要

本书系统地介绍了现代通信系统的基本理论和最新发展技术。

全书共分8章，内容包括：绪论；信号与频谱；基带脉冲与数字信号；带通信号传输原理与电路；AM、FM及数字调制系统；随机过程与频谱分析；噪声背景下通信系统的性能；有线及无线通信系统。

每章都有一定的助学例题及大量的习题，部分例题及习题附有MATLAB仿真软件。

新增内容主要有数AM和FM广播、DSL调制解调器、卫星数字无线电广播、第二代与第三代蜂窝电话系统、电缆数据调制解调器、Wi-Fi和Wi-Max无线网络、学生资源手册、Mathcad文件以及MATLAB M文件等。

本书可供工科二、三年级本科生作为教材使用，也适合作为研究生的入门课程教材，或作为电气工程师的最新技术参考书。

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作者简介

库奇教授出生于美国北卡罗来纳州达勒姆，他从小就对电子工程感兴趣，高中时就是一名广播工程师。

Leon教授1963年毕业于美国杜克大学，获学士学位，以后又在佛罗里达大学获得电子工程硕士和博士学位。

Leon教授分别于1968年和1984年担任佛罗里达大学助理教授和教授职务。

1990年到2004年，Leon教授担任佛罗里达大学电子与计算机协会副主席。

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章节摘录

A digital communication system transfers information from a digital source to the intended receiver (also called the sink). DEFINITION. An analog communication system transfers information from an analog source to the sink. Strictly speaking , a digital waveform is defined as a function of time that can have only a discrete set of amplitude values. If the digital waveform is a binary waveform , only two values are allowed. An analog waveform is a function of time that has a continuous range of values. An electronic digital communication system usually has voltage and current waveforms that have digital values; however , it may have analog waveforms. For example , the information from a binary source may be transmitted to the receiver by using a sine wave of 1 , 000 Hz to represent a binary 1 and a sine wave of 500 Hz to represent a binary 0. Here the digital source information is transmitted to the receiver by the use of analog waveforms , but the system is still called a digital communication system. From this viewpoint , we see that a digital communication engineer needs to know how to analyze analog circuits as well as digital circuits.

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编辑推荐

这本经典的通信原理教材在其第七版中继承了以前各版本的风格 and 传统，为读者介绍了数字通信系统的最新发展和技术。

《数字与模拟通信系统（第7版）（英文版）》不仅可供工科二、三年级的本科生使用，也适合作为研究生的入门课程教材，教师及学生可从网站下载学生题解手册及教师题解手册，教师题解手册仅供授课老师使用。

与《数字与模拟通信系统（第7版）（英文版）》配套的MATLABM文件及Mathcad文件也可从该网站下载。

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2G及3G蜂窝电话系统 Mathcad文件 MAtLAB M文件

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