<<数字通信>>

图书基本信息

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作者：莱斯

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内容概要

《数字通信——离散时间方法(英文影印版)》运用离散信号处理的原则来介绍和分析数字通信，连接了实时和离散方式。
注重理论与实践相结合。
涵盖了离散信号处理、离散滤波器设计、多速率处理及估计理论，并提出了基于离散信号的空间分析、数值算法。
《数字通信——离散时间方法(英文影印版)》可作为电子信息工程、通信工程专业本科生教材，也可作为相关领域工程技术人员的参考书。
本书由Michael
Rice著。

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书籍目录

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章节摘录

In the 1980s, the desire to increase the capacity and suite of services offered to mobile telephone customers prompted the development of digital communication systems. GSM, the digital mobile telephone standard in Europe, was deployed in the 1980s, whereas digital standards such as IS-54 and IS-136 (TDMA/FDM) and IS-95 (CDMA) were deployed in the United States in the 1990s. In addition to voice, digital radio is becoming more popular and television is increasingly delivered in a digital format (HDTV is an integrated digital video/audio format). The corresponding communications link is a digital communications link. Data communication systems are also following this trend. One example is aeronautical telemetry.9 In aeronautical telemetry, the performance of an airborne "test article" is monitored by using a radio link to transmit the measurements output by a set of transducers to a ground-based monitoring station. The first aeronautical telemetry links were analog AM in the 1940s and analog FM in the 1950s. The output of each transducer modulated a separate carrier frequency to form the telemetry downlink. As airborne systems became more complex, more onboard measurements had to be collected and radioed to the ground. The use of separate carriers for each one proved unwieldy and uneconomical. By the 1970s, digital technology had progressed to the point where a new approach was possible. The transducer outputs were sampled to form a bit stream. The bit streams from all transducers were combined to form a composite bit stream that was used to modulate a single carrier. A digital version of FM (known as PCM/FM in the IRIG 106 Standard) became the most popular choice. ……

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