

<<数字信号处理>>

图书基本信息

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### 内容概要

本书是在数字信号领域的经典教材Digital Signal Processing: A Computer-Based Approach, Fourth

Edition的基础上改编而成的, 内容涵盖了信号与信号处理、时域中的离散时间信号统、频域中的离散时间信号、离散时间系统、有限长离散变换、 $z$ 变换、变换域中的LTI离散时间系统、数字滤波器结构、IIR数字滤波器设计、FIR数字滤波器设计、DSP算法实现等方面。

本书的特点是, 在讲解上述内容的同时, 给出了大量简单而实用的例子, 并用MATLAB程序进行了验证, 同时提供了大量的高质量习题和仿真练习。

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### 编辑推荐

Sanjit K. Mitra所著的《数字信号处理——基于计算机的方法(第4版英文改编版)》是数字信号处理的经典教材，是作者在多年教学的基础上编写而成的。

其版本不断更新，内容涵盖了离散时间信号、系统和现代数字信号处理的基础知识。

本书的每一章均从基本概念入手，详细阐述各种基本理论与分析方法，并在介绍中给出了许多数字信号处理的应用实例，以及基于MATLAB的仿真实验。

在学习完本书以后，学生即可掌握数字信号处理的基础知识及实际应用。

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