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<<信号处理导论>>

图书基本信息

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前言

清华大学出版社与PrenticeHall出版公司合作推出的“大学计算机教育丛书（影印版）”和“ATM与BISDN技术丛书（影印版）”受到了广大读者的欢迎。
很多读者通过电话、信函、电子邮件对我们的工作以积极评价，并提出了不少极好的建议，令我们感动和鼓舞。
我们除了继续努力完善上述两套丛书以外，还将努力拓宽影印图书的专业范围，以更好地满足读者的需要。

电子工程是信息科学的基础，高等学校新的教学要求指出，计算机专业和电子学专业的学生应相互学习渗透到彼此的专业领域，拓宽知识面，以适应信息技术飞速发展的时代。
培养通晓相关专业领域知识的人才，成为面向新世纪的理工科教育的迫切要求。
为此，我们挑选了与信息科学、电子学有关的国外优秀著作，组成电子工程系列丛书（影印版），奉献给国内读者。
我们希望这套新的丛书能为国内的大专院校师生和科研单位的工作人员提供新的知识和营养，也衷心期待着读者对我们一如既往的支持。

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内容概要

《信号处理导论(影印版)》以清晰、直观的文体全面介绍了数字信号处理（DSP）的基本原理和算法，并通过大量实例展示了信号处理理论的应用；如：数字信号发生器（包括波表发生器）、数字音响效果处理器、降噪和信号增强、随机噪声发生器等。
《信号处理导论(影印版)》实用性极强，全书没有繁琐的公式推导，但提供了100个C语言函数和MATLAB函数，以及编程中的考虑，使读者能方便地进行软件实现和算法仿填，同时还介绍了DSP硬件实现的方法。
全书有350个习题，其中75个上机实验。
此外，还有几个一般的DSP文献少有介绍和内容如：环形缓冲器，参量均衡器设计、音响效果处理、Savitzky-Golay平滑滤波器和噪声整形等。
《信号处理导论(影印版)》适用于不同层次的读者如：大学生、研究生、工程技术人员以及DSP爱好者。

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