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<<嵌入式计算系统设计原理>>

图书基本信息

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前言

Embedded computing is more important today than it was in 2000. when the first edition of this book appeared . Embedded processors are in even more products, ranging from toys tO airplanes. Systems-on-chips now use up to hundreds of CPUs. The cell phone is on its way to becoming the new standard computing platform. As my column in IEEE Computer in September 2006 indicated. there are at least a half-million embedded systems programmers in the World today,probably closer to 800,000. In mis edition I have tried to both update and revamp. One major change is mat the book now uses the TI TMS320C55xTM(C55x)DSP.I seriously rewrote the discussion of real-time scheduling. I have tried to expand on performance analysis as a theme at as many levels of abstraction as possible. Given the importance of multiorocessors in even the most mundane embedded systems , this edition also talks more genetaUy about hardware／software co-design and muItiorocessors. One ofthe changes in the field is that this material iS taught at lower and lowerlevels of the curriculum. What used to be graduate material is now upper-division undergraduate；some of this material Will percolate down to the sophomore levelin the foreseeable future. I think that you Can use subsets of this book tO cover both more advanced and more basic courses. Some advanced students may not need the background material of the earlier chapters and you Can spend more time on software performance analysis, scheduling, and multiprocessors . Vc'hen teaching introductory courses, software performance analysis is an alternative path to exploroing microprocessor architectures as well as software；such courses can concentrate on the first few chapters. The new Web site for this book and my other books is http：//www. waynewolf. us. On this site, yoU can find overheads for the material in this book, suggestions for labs. and links tO more information on embedded systems.

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内容概要

本书从组件技术的视角出发，介绍了嵌入式系统设计技术和技巧。
本书第l版已被广泛应用于教学，可以说在很大程度上引发了嵌入式系统课程的创立，并为实践设计提供了宝贵指南。
第2版根据最先进的技术发展进行了更新。
不论是进行软硬件设计的研究人员、学生还是专家，都能从Wayne Wolf的集成化工程设计方法中获益匪浅。
本书主要特点： 以实际芯片(ARM芯片和TI C55x DSP)为例，进行相关设计技术和技巧的说明，向读者介绍如何将这些理论付诸于设计实践。
在所有关键课题讨论中都尤为强调现实中的设计实践，从而为学生和设计人员提供了最先进技术的指导。
对设计实践中所必需的基本应用技术进行重点讨论，帮助读者在实际工作中熟练地设计大型的、复杂的嵌入式系统。

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作者简介

Wayne Wolf，拥有斯坦福大学电气工程博士学位，曾执教于普林斯顿大学，现任职于GeorgiaTech公司。
在1989年加入普林斯顿大学之前，他曾在AT&T贝尔实验室工作。
他是IEEE和ACM会员、IEEE计算机协会核心成员以及ASEE和SPIE成员。
Wolf教授于2003年获得TASEE Frederick E. Ter

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