

MSP430 Microcontroller Basics



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The MSP430 microcontroller family offers ultra-low power mixed signal, 16-bit architecture that is perfect for wireless low-power industrial and portable medical applications. This book begins with an overview of embedded systems and microcontrollers followed by a comprehensive in-depth look at the MSP430. The

coverage included a tour of the microcontroller's architecture and functionality along with a review of the development environment. Start using the MSP430 armed with a complete understanding of the microcontroller and what you need to get the microcontroller up and running! Contents: 1.Embedded Electronic Systems and Microcontrollers; 2. The Texas Instruments MSP430; 3. Development; 4. A Simple Tour of the MSP430; 5. Architecture of the MSP430 Processor; 6.Functions, Interrupts and Low-Power Modes; 7.Digital Input, Output and Displays; 8. Timers; 9. Mixed-Signal Systems: Analog Input and Output; 10. Communication; 11. The Future: MSP430X; Appendices.

*Details C and assembly language for the MSP430 *Companion Web site contains a development kit *Full coverage is given to the MSP430 instruction set, and sigma-delta analog-digital converters and timers

作者介绍:

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标签

textbook

embedded

MSP430

评论

虽然我没有用过MSP430，我用的8051居多。但是这本书我认真读过，是一本难得的好书。即使你不用MSP430,也应该读一读。

作者不光介绍MSP430的设计，还介绍了为什么这么设计，以及有些设计其实有点不太方便。让你看到MSP430的时候，感觉面对的不是一个冷冰冰的芯片，而是一个虽有瑕疵但瑕不掩瑜的艺术品。我觉得这本书当作embedded system的最佳教材都可以。

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书评

一开始是想练手一下freeRTOS，而430系统比较简单而且已经有完善的移植版本，思量着反正有空就学习一下。本来还想有datasheet以及user manual干嘛还要翻这么厚一本砖头，不过读完以后（其实也只是走马观花翻了一遍）真的是收获良多。430和2000系列应该是TI在国内的两个主要产品...

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