MSP430 Microcontroller Basics

By John H. Davies

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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

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