Microcontroller Programming and Interfacing: Texas Instruments MSP430 (Synthesis Lectures on Digital Circuits and Systems)

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This book provides a thorough introduction to the Texas Instruments MSP430 microcontroller. The MSP430 is a 16-bit reduced instruction set (RISC) processor that features ultra low power consumption and integrated digital and analog hardware. Variants of the MSP430 microcontroller have been in production since 1993. This provides for a host of MSP430 products including evaluation boards, compilers, and documentation. A thorough introduction to the MSP430 line of microcontrollers, programming techniques, and interface concepts is provided along with considerable tutorial information with many illustrated examples. Each chapter provides laboratory exercises to apply what has been presented in the chapter. The book is intended for an upper level undergraduate course in microcontrollers or mechatronics but may also be used as a reference for capstone design projects. Also, practicing engineers already familiar with another microcontroller, who require a quick tutorial on the MSP430, will find this book very useful.

Table of Contents: Introduction to Microcontroller Technology / Hardware and Software Organizations / Power Management System / MSP430 Operating Parameters and Interfacing / MSP430 Memory System

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