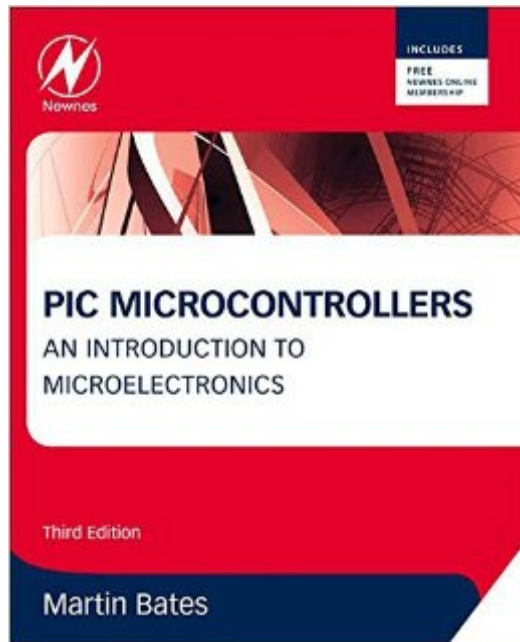# PIC Microcontrollers: An Introduction To Microelectronics

Synopsis

PIC Microcontrollers: An Introduction to Microelectronics, Third Edition, provides an introduction to the complex technology of microcontrollers. Starting with the standard PC, it establishes basic concepts and terminology: microprocessor systems, memory, input and output, and general digital systems ideas. It then examines the PIC microcontroller (MCU), which dominates the market for small-scale industrial applications. The analysis includes a chip that is no longer used commercially, with the minimum of advanced features: the PIC 16F84A; and the PIC 16F690, which has more features and is representative of more recent products in the PIC range. The discussions cover PIC architecture, programming techniques, PIC development systems, application design, program debugging, PIC motor applications, and microcontroller systems. Each chapter begins with an outline of contents and concludes with a set of questions for self-assessment or formal testing of students. This book was written for beginners, college or university students, or independent hobbyists.A focus on the 16F84A as the starting point for introducing the basic programming principles and architecture of the PIC, progressing to newer chips in the 16F range, in particular the 16F690, and Microchip starter kitsHow to use the free Microchip development environment MPLAB IDE, plus Proteus VSM interactive electronic design software, to develop your own applicationsNumerous fully-documented, working code examples downloadable from the companion website

Book Information

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Customer Reviews

Probably not the best book for beginners. I felt a lacking in understanding of the indiviaul registers and methods of accessing/changing data.

This is a great book but it also kind of requires you to understand computers beyond a mouse and keyboard

The package got here BEFORE the estimated delivery date and it is in such good condition you would think I bought it at the local bookstore!It was a very pleasant surprise. :)

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