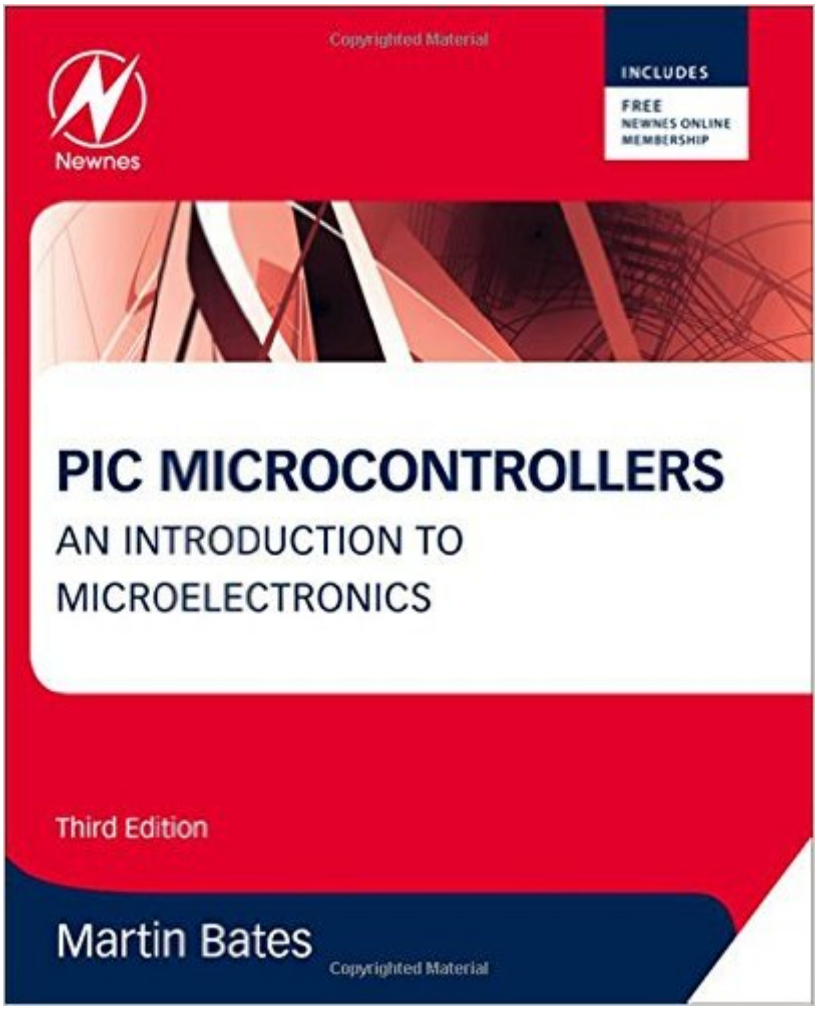
# PIC Microcontrollers, Third Edition: An Introduction To Microelectronics



## 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

Paperback: 456 pages

Publisher: Newnes; 3 edition (October 25, 2011)

Language: English

ISBN-10: 0080969119

ISBN-13: 978-0080969114

Product Dimensions: 7.5 x 1 x 9.2 inches

Shipping Weight: 2.1 pounds (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 starsÂ Â See all reviewsÂ (3 customer reviews)

Best Sellers Rank: #1,064,391 in Books (See Top 100 in Books) #26 inÂ Books > Computers & Technology > Hardware & DIY > Microprocessors & System Design > PIC Microcontroller #294 inÂ Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Microelectronics #6421 inÂ Books > Textbooks > Engineering

## 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. :)



PIC Microcontrollers, Third Edition: An Introduction to Microelectronics PIC Microcontrollers, Second Edition: An Introduction to Microelectronics PIC Microcontrollers: An Introduction to Microelectronics Fundamentals of Microcontrollers and Applications in Embedded Systems with PIC Microcontrollers Programming 16-Bit PIC Microcontrollers in C, Second Edition: Learning to Fly the PIC 24 Programming 16-Bit PIC Microcontrollers in C: Learning to Fly the PIC 24 (Embedded Technology) Pap/Cdr Edition by Di Jasio, Lucio published by Newnes (an imprint of Butterworth-Heinemann Ltd ) (2007) Programming 16-Bit PIC Microcontrollers in C: Learning to Fly the PIC 24 (Embedded Technology) Programming 16-Bit PIC Microcontrollers in C: Learning to Fly the PIC 24 PIC Microcontroller Project Book : For PIC Basic and PIC Basic Pro Compliers Third Eye: Awakening Your Third Eye Chakra: Beginner's Guide (Third Eye, Third Eye Chakra, Third Eye Awakening, Chakras) Third Eye: Third Eye Activation Secrets (Third Eye Awakening, Pineal Gland, Third Eye Chakra, Open Third Eye) Designing Embedded Systems with PIC Microcontrollers, Second Edition: Principles and Applications DESIGNING EMBEDDED SYSTEMS WITH PIC MICROCONTROLLERS, 2ND EDITION by WILMSHURST (2010-05-04) Interfacing PIC Microcontrollers, Second Edition: Embedded Design by Interactive Simulation DESIGNING EMBEDDED SYSTEMS WITH PIC MICROCONTROLLERS, 2ND EDITION Programming PIC Microcontrollers with PICBASIC (Embedded Technology) PIC Microcontrollers: Know It All (Newnes Know It All) Designing Embedded Systems with PIC Microcontrollers: Principles and Applications Time'n and count'n: Using PIC microcontrollers from square 1 Serial Communications: Using PIC Microcontrollers (Version 3.0)