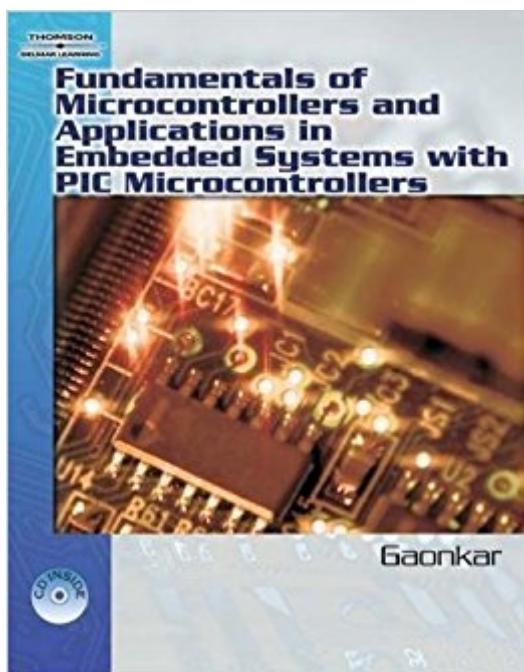The book was found

# Fundamentals Of Microcontrollers And Applications In Embedded Systems With PIC Microcontrollers



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**Fundamentals of Microcontrollers and Applications in Embedded Systems with PIC Microcontrollers**

Gaonkar

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# Synopsis

Learn microcontroller fundamentals as well as the basics of architecture, assembly language programming, and applications in embedded systems! This comprehensive introduction to the PIC microcontroller text builds an in-depth foundation in microprocessor theory and application. The text features balanced coverage of both hardware and software for a fuller understanding of how microcontrollers function. Readers are systematically guided through fundamental programming essentials of assembly language in a step-by-step process that builds a sound knowledge base for tackling the basic operability of the chip, as well as more advanced applications of the PIC.

# Book Information

Paperback: 576 pages

Publisher: Thomson/Delmar Learning; 1 edition (January 8, 2007)

Language: English

ISBN-10: 1401879144

ISBN-13: 978-1401879143

Product Dimensions:  1.2 x 7.8 x 9.8 inches

Shipping Weight: 2.3 pounds (View shipping rates and policies)

Average Customer Review:    3.4 out of 5 stars    5 customer reviews

Best Sellers Rank: #357,087 in Books (See Top 100 in Books)   #4 inÃ Â Books > Computers & Technology > Hardware & DIY > Microprocessors & System Design > PIC Microcontroller   #42 inÃ Â Books > Computers & Technology > Hardware & DIY > Microprocessors & System Design > Embedded Systems   #49 inÃ Â Books > Textbooks > Engineering > Electrical & Electronic Engineering

# Customer Reviews

Microprocessor and Microcontroller Fundamentals. Microcontroller Architecture - PIC 18F Family. PIC 18F Programming Model and its Instruction Set. Programming and Problem Solving. Introduction to Data Copy (Move), Arithmetic, and Branch Instructions. Introduction to Logic, Bit Manipulation, and Multiply-Divide Operations. Stack and Subroutines. Application Programs and Software Design. Input/Output (I/O) Ports and Interfacing. Interrupts. Timers. Data Converters. Serial I/O

Ramesh Gaonkar is professor of Electrical Engineering Technology at Onondaga Community College in Syracuse, New York. He is also responsible for the development of the Computer

Technology Program, STIP-Skills Improvement Program and Apprentice Program and is the author of several books. Prior to teaching, Mr. Gaonkar was a Design Engineer where he was responsible for Circuit Design. He has served as consultant for the National Science Foundation, Advanced Technology Program Proposal Review, Development and Evaluations Associates, and the National Institute of Industrial Engineering in Bombay, India. Mr. Gaonkar has received several awards, including the SUNY Chancellor's Award for Creative and Scholarly Activities, the Central NY Technology-Outstanding Teacher Award, and the American Society for Engineering Education Outstanding Teacher Award. He is a member of several professional organizations serving in leadership capacities. Mr. Gaonkar received his Bachelor of Science in Electrical Engineering from Rensselaer Polytechnic Institute, his Master's of Science in Physics from Bombay University, his Master's of Science in Electrical Engineering from Union College and his Doctorate in Instructional Technology and Electrical Engineering from Syracuse University.

Only reason I bought this book was because it was the required text for the class. None of the questions have answers in the back and the software is only good for 30 uses. In my opinion, the purchase of the book should come with an extended or full software license. Absolutely ridiculous to have spend additional money after the initial trial!!

So glad I only rented this book. My professor has found at least 2 coding errors per chapter. Apparently, the editors of this book were out to lunch for the entire thing. The code, verbatim from the book, does not work in MPLABS. That was super helpful when trying to learn it. Great job, guys.

Excellent

It is an excellent book.It is very easy to read and comprehensive.I like it, I recommend this book.

Gaonkar gives you a very detailed education in programming embedded systems. You learn that a microcontroller is really just a special type of computer, where you deal directly with the von Neumann architecture. The specific choice of hardware is the PIC18. Of course, by the end of the book, you should be fluent in writing assembler for it. But, more generally, the skills can be readily transferred to most other types of microprocessors currently on the market. Plus many that do not yet exist. The Neumann design is unlikely to be supplanted. It has existed for over 60 years, being successfully instantiated in succeeding generations of hardware.The book has many questions and

assignments for each chapter. Along with a simulator for the PIC18 and exercises that involve programming for it. Realistically, many hours will be needed to tackle these problems. Which makes it well suited to accompany an undergraduate course.

Fundamentals of Microcontrollers and Applications in Embedded Systems with PIC Microcontrollers Introduction to Embedded Systems: Using Microcontrollers and the MSP430 PIC Microcontrollers, Third Edition: An Introduction to Microelectronics PIC Microcontrollers: Know It All (Newnes Know It All) Programming with MicroPython: Embedded Programming with Microcontrollers and Python Real-Time Systems: Design Principles for Distributed Embedded Applications (Real-Time Systems Series) Introduction to Embedded Systems: Using ANSI C and the Arduino Development Environment (Synthesis Lectures on Digital Circuits and Systems) AVR Microcontroller and Embedded Systems: Using Assembly and C (Pearson Custom Electronics Technology) Fast and Effective Embedded Systems Design, Second Edition: Applying the ARM mbed Fast and Effective Embedded Systems Design: Applying the ARM mbed Digital Design (Verilog): An Embedded Systems Approach Using Verilog Programmable Microcontrollers with Applications: MSP430 LaunchPad with CCS and Grace (Electronics) Fundamentals Of Information Systems Security (Information Systems Security & Assurance) - Standalone book (Jones & Bartlett Learning Information Systems Security & Assurance) My Polaroid PIC-300 Instant Film Camera Fun Guide!: 101 Ideas, Games, Tips and Tricks For Weddings, Parties, Travel, Fun and Adventure! (Polaroid Instant Print Camera Books) Naked Women : Explicit And Lustful Naked Women Pic Bound To Get You Aroused. (Adult Picture Books) Travel and Adventure vol 1: related: bunny,Botswana,locomote,Henri Cartier-Bresson,traveling,capital of italy,Henri Cartier-Bresson,gorgeous,gamble,pic Tanker Operations: A Handbook for the Person-In-Charge (PIC) PIC Microcontroller: An Introduction to Software & Hardware Interfacing Mortgage Valuation Models: Embedded Options, Risk, and Uncertainty (Financial Management Association Survey and Synthesis) Make: Arduino Bots and Gadgets: Six Embedded Projects with Open Source Hardware and Software (Learning by Discovery)