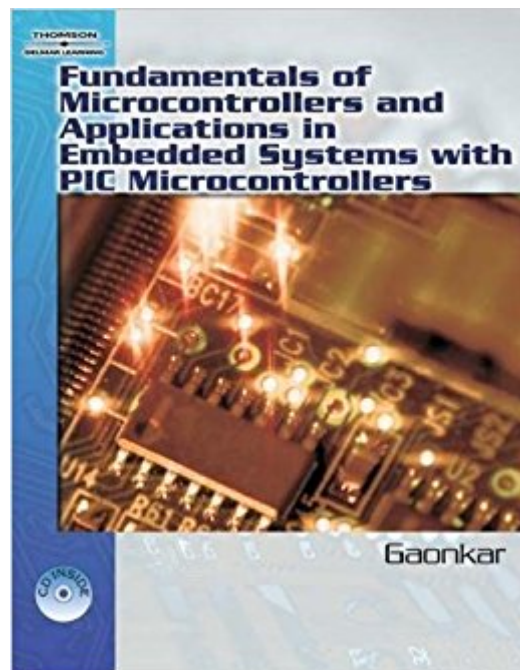




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Fundamentals Of Microcontrollers And Applications In Embedded Systems With PIC Microcontrollers



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

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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.

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