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Designing Embedded Systems With PIC Microcontrollers: Principles And Applications



Synopsis

PIC microcontrollers are used worldwide in commercial and industrial devices. The 8-bit PIC which this book focuses on is a versatile work horse that completes many designs. An engineer working with applications that include a microcontroller will no doubt come across the PIC sooner rather than later. It is a must to have a working knowledge of this 8-bit technology. This book takes the novice from introduction of embedded systems through to advanced development techniques for utilizing and optimizing the PIC family of microcontrollers in your device. To truly understand the PIC, assembly and C programming language must be understood. The author explains both with sample code and examples, and makes the transition from the former to the latter an easy one. This is a solid building block for future PIC endeavors. New to the 2nd Edition:

- *Include end of chapter questions/activities moving from introductory to advanced
- *More worked examples
- *Includes PowerPoint slides for instructors
- *Includes all code snips on a companion web site for ease of use
- *A survey of 16/32-bit PICs
- *A project using ZigBee
- *Covers both assembly and C programming languages, essential for optimizing the PIC
- *Amazing breadth of coverage moving from introductory to advanced topics covering more and more complex microcontroller families
- *Details MPLAB and other Microchip design tools

Book Information

File Size: 7407 KB

Print Length: 704 pages

Publisher: Newnes; 2 edition (November 7, 2009)

Publication Date: November 7, 2009

Sold by:Â Digital Services LLC

Language: English

ASIN: B0057X0JE2

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #143,208 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #3 inÂ Books

> Computers & Technology > Hardware & DIY > Microprocessors & System Design > PIC

Microcontroller #11 inÂ Kindle Store > Kindle eBooks > Engineering & Transportation >

Engineering > Industrial, Manufacturing & Operational Systems > Industrial Design #14 inÂ Books
> Computers & Technology > Hardware & DIY > Microprocessors & System Design > Computer
Design

Customer Reviews

Wow! This is the book for the person who wants to know it all. Forget about the nonsense talk about the book containing assembler, or C programming examples. Even if you intend to use Melabs Pic Basic, or Pic Basic Pro, it is of immense help, if not a strict requirement, to understand how the chips actually work. This book will fill gaps in what you know about the PIC, or what you think you know about the PIC. True, you can use MeLabs Pic Basic and do some wonderful things with minimal knowledge of the PIC. However, if your goals are lofty, as in building robots, or any complex task, you will love what this book can teach you. The book does not skip on anything. Did you ever read a book and have questions on what you read? That will not happen with this book, it goes into great detail to explain the concepts, and how they apply to a PIC. The best PIC programmers do know something about assembler. This does not mean they write their projects in assembler, but some routines are best written in assembler for speed, and compactness. True, the book has a lot of drawings taken directly from the PIC application notes, but what they didn't tell you was that the author adds his own notes to point out some things that may not be so obvious. The author shows the notes, then there are notes to explain it all. Is there a better way to learn? NO, there isn't. You will be told to use the application notes for whatever PIC you intend to work with, so what could be better than knowing how to read them ,and understand them? Every book I have read, or glanced through all said the same thing, "Get the app notes on the PIC you are working with first." The programming examples can only help in giving the reader a greater understanding.

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