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Programming And Customizing The PIC Microcontroller (Tab Electronics)

PROGRAMMING AND CUSTOMIZING THE
PIC® 3RD EDITION
Microcontroller

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- FOCUS: 3 major PIC MCU families and their roles in the applications that use them
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Myke Predko

Synopsis

MASTER PIC MICROCONTROLLER TECHNOLOGY AND ADD POWER TO YOUR NEXT PROJECT! Tap into the latest advancements in PIC technology with the fully revamped Third Edition of McGraw-Hill's Programming and Customizing the PIC Microcontroller. Long known as the subject's definitive text, this indispensable volume comes packed with more than 600 illustrations, and provides comprehensive, easy-to-understand coverage of the PIC microcontroller's hardware and software schemes. With 100 experiments, projects, and libraries, you get a firm grasp of PICs, how they work, and the ins-and-outs of their most dynamic applications. Written by renowned technology guru Myke Predko, this updated edition features a streamlined, more accessible format, and delivers: Concentration on the three major PIC families, to help you fully understand the synergy between the Assembly, BASIC, and C programming languages Coverage of the latest program development tools A refresher in electronics and programming, as well as reference material, to minimize the searching you will have to do WHAT'S INSIDE! Setting up your own PIC microcontroller development lab PIC MCU basics PIC microcontroller interfacing capabilities, software development, and applications Useful tables and data Basic electronics Digital electronics BASIC reference C reference 16-bit numbers Useful circuits and routines that will help you get your applications up and running quickly

Book Information

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Customer Reviews

The first six chapters are on/in the Microchip website/data book. Chapters seven through nine are decated to software and hardward design. The rest are on the emulator, hints and code examples.I bought the book for examples on input/output interfacing and coding. I found one or no input examples and several output examples. Hardware examples were better than coding examples.This project was my first with uController's but I have been programming and designing hardware for several years. After getting helpful straight foreward examples on input/output hardware and software design, the book became more of an asset. This book is not for beginners.

After reading the earlier, excellent book in this series on Basic Stamps, I was hoping to find another book of similar quality to help me delve into the world of PICs. I am, to say the least, very disappointed. I'm a senior level software engineer with a good hardware background, but I found this book to be so unclear as to be nearly unreadable. There is little logical progression in building the reader's conceptualizations. Facts are introduced seemingly at random. Irrelevant ideas are gratuitously tossed in, only to be rescinded shortly after. I looked in vain for a chapter that lived up to its title, and felt disappointed with each and every one. There isn't even an appendix listing the processor's instruction set! There's no way I could program a PIC after reading this book, and I'm almost as ignorant about them as before. All in all, a very frustrating experience.

There is 1243 pages on this book but up to 243 and after 965, there is no useful information. A example:On figure 2.3, we have that about the printing of datasheets: "to create two-side documents, first print the back side in reverse order, put the pages back into the printer, and print the front side in ascending order." Are you kidding with me, author?On the book, we have:*useless block diagrams*no logical sequence. Low-end, mid-range and PIC18 are all treated simultaneously. Not very pedagogical.*evasive comments about personal experiences and 8051 microcontrollers approach (I can do it but it is very difficult to you...)*nothing about USB. It is very disappointing for a book that deals with PIC18 family.In general, the book is not a new edition:On Figure 14.4 there is a printscreen of one very old MPLAB edition. That chapter about debug is very outdated and useless.On page 538, we have it: " You might be a bit suspicious of an RTOS after what I've just written. After all, you probably have a PC running Windows/95 or Windows/NT."Recommendation:Designing Embedded Systems with PIC Microcontrollers: Principles and Applications

The author may know the subject, however by reading the book one does not get that feeling. The

book has numerous errors. The author has no idea as to how a book should be written clearly so that people can understand the subject. Microchip data sheets are written better than the whole book. I DO NOT RECOMMEND THIS BOOK TO ANY BODY. FIND A DIFFERENT BOOK IF YOU WANT TO LEARN THIS SUBJECT OF PIC MICROCONTROLLERS.

I wasnt going to buy this book because of the poor reviews. But then I got looking and its published in Sept. 2007 and all the reviews are way before that. So I went to B&N and actually previewed the book and ended up buying it. I'm impressed with parts of the book. He explains a lot about the PIC and covers the difference for most pics. It really ties up a lot of loose ends that I had. The beginner may have not understand everything but the more experinced person will understand completely. The part I didn't like was the Microchip website stuff but here again maybe some people dont surf the net and figure out alot of this stuff themselves. Buy the book if you want the details explained and already have a basic understanding.

The book is full of good information but it is also full of way too much fluff.Many of Myke's figures are difficult to follow and the text describing them are often confusing. McGraw Hill used to mean high quality, technical literature (my home library is full of their texts). However, this book was sorely lacking editorial oversight, allowing Predko to babble on, and on.For the software engineer who wants to understand the chip, he/she should read John B. Peatman's book on the same subject.

I'm 100 pages into the book and am being annoyed more and more.The author really seems to know his stuff, but he seems to forget that alot of people reading this book are not up to par with his knowledge.The beginning of this book was fun, because he described many things in layman's terms. When the book starts to give examples in assembly, it's no longer laymen. I had to go online and learn PIC Assembly, then when I went back to the book, I understood what he was trying to explain, but even now having knowledge of PIC Assembly, it was still very difficult to follow. He would mix assembly instructions in with pseudo-code and didn't show how his constants were defined and which registers and their bits were used for what. It was very confusing. Then to top it off, he just jumped from not explaining the specific registers and the uses of their bits to implementing interrupts, which is an even more involved subjet.Although I have alot of respect for Myke Predko's knowledge in this area, I have to say that his writing is not easy to follow and I saddingly would have to say that this book is more for people with a pretty deep experience in programming MCUs and building electronic circuits.

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