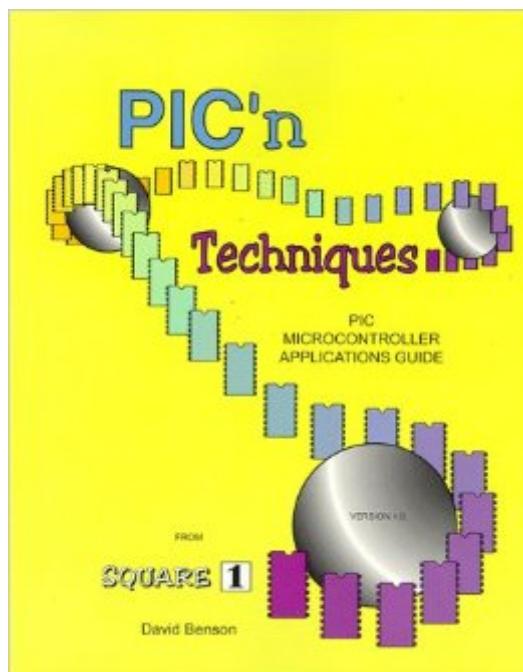


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# **PIC'n Techniques, PIC Microcontroller Applications Guide**



## Synopsis

PIC'n Techniques is an intermediate level applications guide covering Microchip Technology's PIC microcontrollers. The book describes the unique features of the 8-pin microcontrollers. The use of timer 1, timer 2 and the capture/compare/PWM (CCP) module is detailed, followed by timing, counting and pulse width modulation (PWM) experiments. These experiments include producing a single time interval output, free running pulse output, event counting, time measurement, frequency measurement and PWM. Some of these techniques are illustrated further by experiments which show how to design and build simple digital pulse and frequency generators and time interval and frequency measurement instruments. The book also explains how to establish serial communication between a PIC chip and a PC via a RS-232 conversion circuit and a terminal program. These techniques are used in a digital voltmeter/data logger experiment for uploading data to a PC for display plus graphing using a spreadsheet program. PIC'n Techniques illustrates techniques used in designing and building intermediate level microcontroller-based instrumentation and systems.

## Book Information

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## Customer Reviews

I wouldn't have bought this book If I had. Sometimes buying books online is really a mistake. Had I been able to flip through this book in a book store, I would not have bought it! My first shock was the style/type of print. My impression was that this was a kids book! The type is large and weird looking. Second; most of this book is taken up by pages and pages of code. There is hardly ANY hardware coverage/examples at all. After flipping through the pages (having only had the book 10 minutes), I became disgusted and threw it on my bookshelf - never to be looked at again! I was planning on buying all of the pic'n series; however, now I am not so sure. Buy a book by John Iovine instead. I

have two of his books and both of them are outstanding...Stay AWAY from Myke Predko books also...

The book gives detailed code for some fairly trivial and some reasonably complex apps. Looks like its geared to hobbyists, I normally expect that a good application guide should be a better balance of software and hardware.

David Benson has written a book that is full of MPASM examples that can be used as is or modified to fit your needs. The book is good for intermediate and beginners that are still struggling with learning PIC assembly. I would have liked to see the 17Cxxx series covered in this book. He does a good job of describing the 12Cxxx series as well as some of the mid-range PICs. He does a great job of covering PC to PIC communications! Overall, this book makes a GREAT addition to my reference library. Good job David!

This is one of my favourite books that David Benson has written. The book starts to explain the features and differences in programming the PIC12C508(Playstation chip)from other Microchip products. All the subject matter from this point deals with timing, so keep this in mind if you are trying to figure out the code in the book. The subroutines are much more advanced if you actually simulate them in MPLAB one at a time. I found this to be helpful as the code carries out for more than 2 or 3 pages in some cases. You can learn a lot here about building your own test equipment, however the author does mention previous subjects from "Pic'n Up The Pace". The subjects from what you learned in the previous editions will certainly help you here, but the code is subjective, and may not be required. The presentation in the book captures the heart and the imagination of programming. This is an another good example of learning through experiments as the author displays the power of these devices in this very informative book.

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