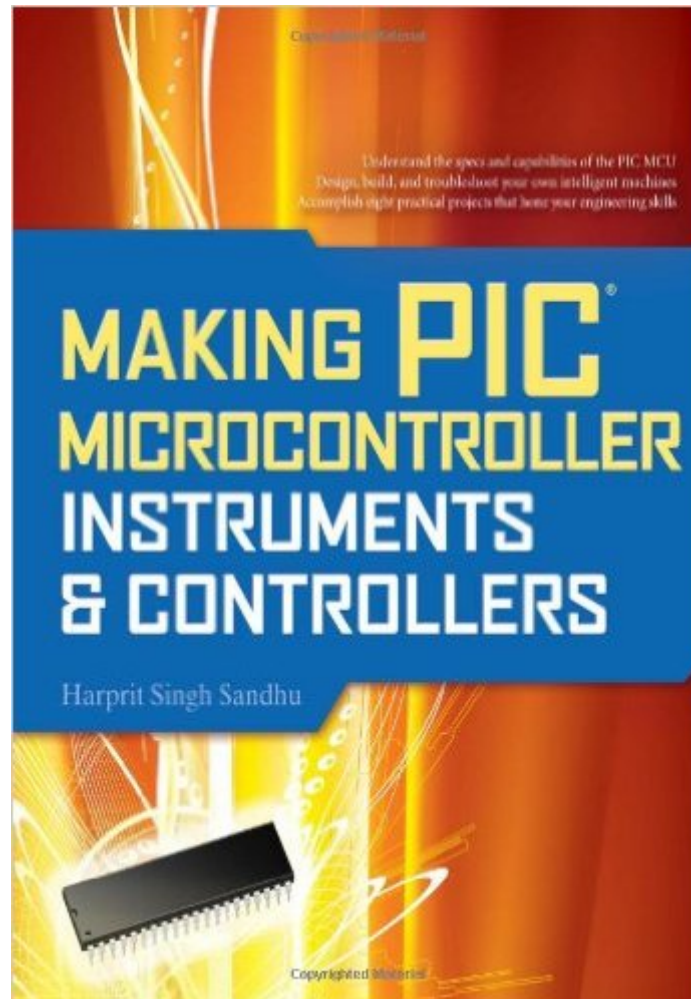


The book was found

# Making PIC Microcontroller Instruments And Controllers



## Synopsis

Essential Design Techniques From the Workbench of a ProHarness the power of the PIC microcontroller unit with practical, common-sense instruction from an engineering expert. Through eight real-world projects, clear illustrations, and detailed schematics, Making PIC Microcontroller Instruments and Controllers shows you, step-by-step, how to design and build versatile PIC-based devices. Configure all necessary hardware and software, read input voltages, work with control pulses, interface with peripherals, and debug your results. You'll also get valuable appendices covering technical terms, abbreviations, and a list of sample programs available online. Build a tachometer that gathers, processes, and displays data Make accurate metronomes using internal PIC timers Construct an asynchronous pulse counter that tracks marbles Read temperature information through an analog-to-digital converter Use a gravity sensor and servos to control the position of a table Assemble an eight-point touch screen with an input scanning routine Engineer an adjustable, programmable single-point controller Capture, log, monitor, and store data from a solar collector

## Book Information

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## Customer Reviews

Mr. Sandhu has authored a well-written, easily understandable book covering a complex subject with ease. To his credit, in-depth coverage of the PIC chip he has selected as a basis for the published projects is thankfully brief. Readers who purchase this book should have a reasonable amount of experience in the PIC range already, and will be pleased to discover that this book is

NOT a rehash of already published data sheets and chip-specific information. Mr. Sandhu has a refreshingly clear writing style, making a complex subject easy to understand. The book assumes the reader will have access to a development board (the LAB-X1) and is using PICBasic (from Micro Engineering Labs). However, these prerequisites are not essential to the reader's enjoyment of the book. In all cases, schematics of the projects are supplied for the reader to construct, or breadboard. A trial version of the software is available. Instrumentation and controllers are necessary in all walks of life. Home, industry, agriculture and so on. For many years, these devices have been a 'dark art', with potential users resorting to purchasing units to satisfy their instrument and/or controller needs, often being forced into a compromise situation due to exact requirements not being available in commercial equipment. No more. Mr. Sandhu supplies a wealth of information, clear instructions and employs a 'universal' approach to his examples. This approach gives the reader wide scope to modify the published designs to suit their own requirements. I have learned a huge amount from reading this book.

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