

PROGRAMMING 8-BIT PIC MICROCONTROLLERS IN C

with Interactive Hardware Simulation

By

Martin Bates, Hastings College of Arts & Technology, UK. and author of the internationally renowned book PIC Microcontrollers 2e

Description

PIC Microcontrollers are present in almost every new electronic application that is released from garage door openers to the iPhone. With the proliferation of this product more and more engineers and engineers-to-be (students) need to understand how to design, develop, and build with them. Martin Bates, best-selling author, has provided a step-by-step guide to programming these microcontrollers (MCUs) with the C programming language. With no previous knowledge of C necessary to read this book, it is the perfect for entry into this world for engineers who have not worked with PICs, new professionals, students, and hobbyists. As MCUs become more complex C is the most popular language due to its ability to process advanced processes and multitasking. RTOSs, that is a need to know for engineers, is also discussed as more advanced MCUs require timing and organization of programming and implementation of multitasking. The book includes lots of source code, circuit schematics, and hardware block diagrams. Microchip's PICDEM Mechatronics board is used to detail the examples throughout the book.

Audience

Engineers new to working with PICs, Students, Hobbyists

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Bibliographic details
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