

Microcontroller System Design Using PIC18F Processors

Part of the Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series

Nicolas K. Haddad (University of Balamand, Lebanon)

Description:

Recent advancements in technology have led to significant improvements in designing various electronic systems. This provides a wide range of different components that can be utilized across numerous applications.

Microcontroller System Design Using PIC18F Processors provides comprehensive discussions on strategies and techniques for optimizing microprocessor-based electronic system development and examines methods for acquiring improved software and hardware skills. Highlights innovative concepts across a range of topics, such as serial peripheral interfaces, addressing modes, and asynchronous communications.

Readers:

This book is an ideal information source for professionals, researchers, academics, engineers, practitioners, and programmers.

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Topics Covered:

- Addressing Modes
- Analog-to-Digital Conversion
- Asynchronous Serial Communications
- Harvard Architecture
- Input/Output Ports
- Macros and Subroutines
- Serial Peripheral Interface
- Von Neumann Architecture

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