



Using the MCS-51 Microcontroller

Han-Way Huang

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This extensively detailed and comprehensive introduction to the Intel MCS-51 microcontroller covers both theoretical and design and implementation issues. The text begins with the MCS-51 CPU architecture and programming model and then discusses the details of the MCS-51 instruction set and assembly programming techniques. It goes on to cover the full spectrum of I/O functions of the MCS-51 variants, progressively developing topics from the simple to the complex; the author first deals with the general concept behind each I/O function, then discusses the specifics of the MCS-51. Numerous design examples and exercises illustrate the ideas presented, helping students to grasp key concepts and learn the applications. An ideal text for the first course in microprocessors or microcontrollers, *Using the MCS-51 Microcontroller* also includes extensive program and interfacing examples and is a helpful reference for practicing engineers.

Features

- Employs a pedagogically sound approach that first outlines basic issues and then discusses the specifics of the MCS-51
- Provides complete coverage of I/O functions including parallel I/O ports, timer functions, serial communication ports, A/D converters, and serial expansion ports
- Incorporates several lab projects into most chapters
- Suggests several evaluation boards and software tools for program development and testing; offers a tutorial for using one of the evaluation boards and its software tools
- Supplemental CD includes an evaluation version of MCS-51 development tools so that readers can test their programs
- Emphasizes design analysis; examples include memory design timing analysis, Centronics interface timing analysis, i8255 interfacing timing verification, and LED and seven-segment display electrical load analysis
- Includes extensive examples covering keypad scanning debouncing, Centronics printer interface, memory system design verification, A/D conversion, D/A conversion, motor control, RS-232 standard, and more
- Solutions manual and transparencies available to adopters

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