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Principles and Applications of Microcomputers: 8051 Microcontroller Software, Hardware, and Interfacing: Vol. II 8051 Microcontroller Hardware and Interfacing (Paperback)

By Ming-Bo Lin

Createspace Independent Publishing Platform, United States, 2016. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Principles and Applications of Microcomputers is a comprehensive textbook, which exemplifies the fundamental principles and applications of microcomputers with the most popular 8051 microcontroller and the Keil C51-MDK (microcomputer development kit). After reading this book, you will be able to design various microprocessor- or microcomputer-based application systems. The main features of this book are as follows:-- Partition the MCS-51 instruction set into many pedagogic groups suitable for entry-level readers and then illustrate them with an abundant number of examples. -- Introduce MCS-51 C programming with most popular topics and then balance the programming of assembly-language and C programs in the design of MCS-51 microcontroller applications.-- Divide the MCS-51 system into the software model and the hardware model. The software model is first introduced and then the hardware model follows. This way greatly facilitates the reader to study a microcomputer system.-- Discuss in detail features and applications of SRAM and Flash. The design of memory modules and the timing consideration related to the MCS-51 are also involved. -- Deal with the interrupt handling, system reset, and watchdog, as well as power...



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