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The 8051 Microcontroller And Embedded

About the content of book, it thoroughly covers everything related to microcontroller 8051, from its architecture, instruction set, assembly programming, C programming, communication interfaces, device interfaces etc with lot of examples and exam like questions. This is the prefect book for learning the basics of a microcontroller.

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Mazidi's 8051 Microcontroller text emphasises the programming and interfacing of the 8051. A systematic, step-by-step approach is used to cover various aspects of 8051. C and Assembly language programming and interfacing. Many examples and sample programs are given to clarify the concepts and provide students with an opportunity to learn by doing.

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The 8051 Architecture 8051 Microcontroller Hardware, The 8051 Oscillator and Clock, Program Counter and Data Pointer, A and B CPU Registers, Flags and the Program Status Word (PSW), Internal Memory, Internal RAM, The Stack and the Stack Pointer, Special Function Registers, Internal ROM, Input/Output Pins, Ports, and Circuits, Port 0, Port 1, Port 2, Port 3, External Memory, Connecting External Memory

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About 8051 Microcontroller Book. Gain valuable assembly code programming knowledge with the help of this newly revised book. Readers will be trained on programming the Intel 8051 microcontroller, one of the most common microprocessors used in controls or instrumentation applications that use assembly code.

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Microcontrollers are the soul of an Embedded System. They are the component of an embedded system which fetch the instructions and execute them. Microcontrollers take the inputs for a system, and process the outputs. Hence this article is designed to make you aware of the 8051 Microcontroller.

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Embedded Systems The Intel 8051 microcontroller is one of the most popular general purpose microcontrollers in use today. The success of the Intel 8051 spawned a number of clones, which are collectively referred to as the MCS-51 family of microcontrollers, which includes chips from vendors such as Atmel, Philips, Infineon, and Texas Instruments.

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5.0 out of 5 stars The 8051 Microcontroller and Embedded Systems, June 15, 2000. Format: Hardcover Verified Purchase. This book is brand-new technical college level text that does a new slant on explaining the practical ways of designing and programming with this popular microcontroller. Even the latest and best Atmel devices are mentioned ...

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From Chapter 7, this book uses both Assembly and C to show the 8051 interfacing with real-world devices such as LCDs, keyboards, ADCs, sensors, real-time-clocks and the DC and Stepper motors. The use of a large number of examples helps the reader gain mastery of the topic rapidly and move on to the topic of embedded systems project design.

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