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## Microcontrollers: Theory and Applications (Computer Engineering Series)

By Ajay V. Deshmukh

Tata McGraw-Hill Education Pvt. Ltd., 2011. Softcover. Book Condition: New. 5th or later edition. This book presents both, the theory and practical applications, in a lucid manner. The book comprehensively covers the architecture, programming and interfacing of Intel's MCS-8051. It also covers the ATMEL 89CXX61 & 89C51 and PIC 16C6X & 16C7X microcontrollers in detail. Several industrial applications of the above microcontrollers have been presented with details about interfacing and programming. Table of contents: PART I LEARNING MICROCONTROLLERS Chapter 1 Introduction to Microcontrollers Chapter 2 8051 Microcontrollers Chapter 3 8051 Pin Description, Connections, I/O Ports and Memory Organization Chapter 4 MCS-51, Addressing Modes and Instructions Chapter 5 8051 Assembly Language Programming Tools Chapter 6 MCS-51 Interrupts, Timer/Counters and Serial Communication Chapter 7 Design with Atmel Microcontrollers Chapter 8 Applications of MCS-51 and Atmel 89C51 and 89C2051 Microcontrollers PART II PIC MICROCONTROLLERS Chapter 9 PIC Microcontrollers Chapter 10 PIC 16F8XX Flash Microcontrollers Chapter 11 More About PIC Microcontrollers Chapter 12 Interfacing and Microcontroller Applications PART III INTERFACING AND INDUSTRIAL APPLICATIONS OF MICROCONTROLLERS Chapter 13 Industrial Applications of Microcontrollers Chapter 14 Advanced Programming and Math Calculations Appendix I PIC 16F877 Appendix II Microcontroller Data Sheets References Index Printed Pages: 334.

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