



PIC Microcontroller And Embedded Systems

Muhammad Ali Mazidi

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Description pic microcontroller and embedded systems offers a systematic approach to pic programming and interfacing using the assembly and c languages. Offering numerous examples and a step-by-step approach, it covers both the assembly and c programming languages and devotes separate chapters to interfacing with peripherals such as timers, lcds, serial ports, interrupts, motors and more. A unique chapter on the hardware design of the pic system and the pic trainer round out coverage, while text appendices and online support make it easy to use in the lab and classroom. For sale in indian subcontinent only systematic coverage of the pic18 family of microcontrollers. Coverage of c language programming of the pic18 starting from chapter 7. Chapters (9-17) on programming and interfacing the pic with peripherals. An entire chapter (chapter 8) dedicated to the design of the pic trainer. The pic microcontrollers: history and features pic architecture & assembly language programming branch, call, and time delay loop pic i/o port programming arithmetic, logic instructions, and programs bank switching, table processing, macros, and modules pic programming in c pic18f hardware connection and rom loaders pic18 timer programming in assembly and c pic18 serial port programming in assembly and c interrupt programming in assembly and c lcd and keyboard interfacing adc, dac, and sensor interfacing ccp and eccp programming radio wave propagation spi protocol and ds1306 rtc interfacing motor control: relay, pwm, dc, and stepper motors muhammad ali mazidi holds master's degrees from both southern methodist university and the university of texas at dallas. He is currently a.b.d. On his ph.d. In the electrical engineering department of southern methodist university. He teaches microprocessor-based system design at devry university in dallas, texas. Rolin mckinlay has a b.s. from devry university.



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