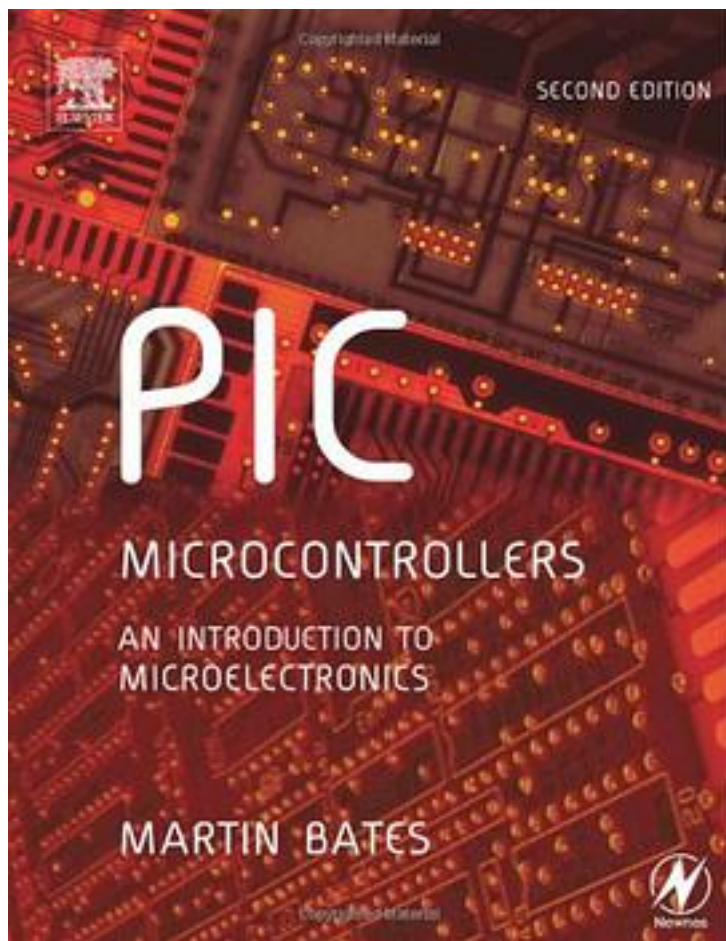


PIC Microcontrollers



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The use of microcontroller based solutions to everyday design problems in electronics, is the most important development in the field since the introduction of the microprocessor itself. The PIC family is established as the number one microcontroller

at an introductory level. Assuming no prior knowledge of microprocessors, Martin Bates provides a comprehensive introduction to microprocessor systems and applications covering all the basic principles of microelectronics. Using the latest Windows development software MPLAB, the author goes on to introduce microelectronic systems through the most popular PIC devices currently used for project work, both in schools and colleges, as well as undergraduate university courses. Students of introductory level microelectronics, including microprocessor/microcontroller systems courses, introductory embedded systems design and control electronics, will find this highly illustrated text covers all their requirements for working with the PIC. Part A covers the essential principles, concentrating on a systems approach. The PIC itself is covered in Part B, step by step, leading to demonstration programmes using labels, subroutines, timer and interrupts. Part C then shows how applications may be developed using the latest Windows software, and some hardware prototyping methods. The new edition is suitable for a range of students and PIC enthusiasts, from beginner to first and second year undergraduate level. In the UK, the book is of specific relevance to AVCE, as well as BTEC National and Higher National programmes in electronic engineering. This is a comprehensive introductory text in microelectronic systems, written round the leading chip for project work. It uses the latest Windows development software, MPLAB, and the most popular types of PIC, for accessible and low-cost practical work. It focuses on the 16F84 as the starting point for introducing the basic architecture of the PIC, but also covers newer chips in the 16F8X range, and 8-pin mini-PICs.

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