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Microprocessors and Microcontrollers (Second Edition)

By R.S. Kaler

I.K. International Publishing House Pvt. Ltd, 2014. Softcover. Book Condition: New. 2nd edition. 18 x 24 cm. It is a complete textbook for anyone interested in all aspects of the microprocessors and microcontrollers family. This book is based upon Microprocessor 8085, 8086 and Microcontroller 8051. All other related microprocessors and microcontrollers like 80186, 80286, 80386, Pentium-4, ARM and PIC are also discussed. All chapters are described with fundamental objectives. A review of important terms and concepts is also given at the end of each chapter that reinforces the idea and material presented. Each chapter also has questions and problems. Broadly the book deals with: ? Evolution of microprocessor, digital concepts, number systems and their conversion, logic gates and combinational logic and circuits, complements, multiplexers-demultiplexers, Flip-Flops, counters, registers, analog/digital conversion counters, registers, analog/digital conversion ? Microprocessor 8085 and 8086 architecture, pin configuration, instructions set, stack and subroutines, addressing modes, interrupts, machine cycles and bus timings, control signals, peripheral I/O instructions, memory segmentation, ?ag register, minimum mode 8086 system and timings, assembler directives and operators ? Interfacing devices, data transfer schemes, interfacing and I/O devices, programmable peripheral interface (PPI), programmable keyboard/display interface (Intel 8279) centronix parallel communication, RS-232C, UART, programmable interval timer...

Reviews

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