

MICROPROCESSOR AND INTERFACING

A P Godse, D A Godse



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Introduction to microprocessor, Microprocessor systems with bus organization, Microprocessor architecture and operations, Memory, I/O device, Memory and I/O operations. 8085 microprocessor architecture, Address, Data and control buses, Pin functions, Demultiplexing of buses, Generation of control signals, Instruction cycle, Machine cycles, T-states, Memory interfacing. Assembly language programming basics, Classification of instructions, Addressing modes, 8085 instruction set, Instruction and data formats, Writing, Assembling and executing a program, Debugging the programs, Decision making, Looping, Stack and subroutines, Developing counters and time delay routines, Code conversion, BCD arithmetic and 16-bit data operations. Interfacing concepts, Ports, Interfacing of I/O devices, Interrupts in 8085, Interfacing of data converters (D-to-A and A-to-D), Programmable interfacing devices like 8279 keyboard/display interface, 8255A PPI, 8253/8254 timer, 8259A PIT, 8237 DMA controller, Serial I/O concepts, SID and SOD, 8251A USART. Interfacing of above chips with 8085, Programming them in different modes, Practical applications.

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