

Instruction Set of 8085

Data Transfer
Instruction

Logical Instruction

Control Instruction

Arithmetic
Instruction

Branching Instruction

Instruction Set Of 8085 Microprocessor With Example

R. C. Holland



Instruction Set Of 8085 Microprocessor With Example:

Microprocessors & Introduction to Microcontroller Atul P. Godse, Dr. Deepali A. Godse, 2020-12-01 The book is written for an undergraduate course on the 8085 and 8086 microprocessors and 8051 microcontroller. It provides comprehensive coverage of the hardware and software aspects of 8085 and 8086 microprocessors and 8051 microcontroller. The book uses plain and lucid language to explain each topic. A large number of programming examples is the feature of this book. The book provides the logical method of describing the various complicated concepts and stepwise techniques for easy understanding, making the subject more interesting. The book is divided into three parts. The first part focuses on the 8085 microprocessor. It teaches you the 8085 architecture, pin description, bus organization, instruction set, addressing modes, instruction formats, Assembly Language Programming (ALP), instruction timing diagrams, interrupts, and interfacing 8085 with support chips, memory, and peripheral ICs 8251, 8253, 8255, 8259, and 8279. It also explains the interfacing of 8085 with data converters (ADC and DAC) and introduces a temperature control system design. The second part focuses on the 8086 microprocessor. It teaches you the 8086 architecture, register organization, memory segmentation, interrupts, addressing modes, operating modes, minimum and maximum modes, interfacing 8086 with support chips, minimum and maximum mode 8086 systems, and timings. The third part focuses on the 8051 microcontroller. It teaches you the 8051 architecture, pin description, instruction set, programming 8051, and interfacing 8051 with external memory. It explains timers, counters, serial port, interrupts of 8051, and their programming. It also describes the interfacing of 8051 with keyboards, LCDs, and LEDs, and explains the control of servomotor, stepper motors, and washing machine using 8051.

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DAC and introduces a temperature control system and data acquisition system design The second part focuses on 8051 microcontroller It teaches you the 8051 architecture instruction set programming 8051 with ALP and C and interfacing 8051 with external memory It also explains timers counters serial port and interrupts of 8051 and their programming in ALP and C It also covers the interfacing 8051 with data converters ADC and DAC keyboards LCDs LEDs stepper motors servo motors and introduces the washing machine control system design *Electronics and Microprocessors* P. MANIMEGALAI,2013

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