

8085 - Instruction set list

8085 Instructions - Datatransfer

| Opcode | Operand | Explanation of Instruction | Description |
|--------|---------------------------|---|--|
| MOV | Rd, Rs M, Rs Rd, M | Copy from source(Rs) to destination(Rd) | <p>This instruction copies the contents of the source register into the destination register; the contents of the source register are not altered. If one of the operands is a memory location, its location is specified by the contents of the HL registers.</p> <p>Example: MOV B, C or MOV B, M</p> |
| MVI | Rd, data M, data | Move immediate 8-bit | <p>The 8-bit data is stored in the destination register or memory. If the operand is a memory location, its location is specified by the contents of the HL registers.</p> <p>Example: MVI B, S7H or MVI M, S7H</p> |
| LDA | 16-bit address | Load accumulator | <p>The contents of a memory location, specified by a 16-bit address in the operand, are copied to the accumulator. The contents of the source are not altered.</p> <p>Example: LDA 2034H</p> |
| LDAX | B/D Reg. pair | Load accumulator indirect | <p>The contents of the designated register pair point to a memory location. This instruction copies the contents of that memory location into the accumulator. The contents of either the register pair or the memory location are not altered.</p> <p>Example: LDAX B</p> |
| LXI | Reg. pair, 16-bit data | Load register pair immediate | <p>The instruction loads 16-bit data in the register pair designated in the operand.</p> <p>Example: LXI H, 2034H or LXI H, XYZ</p> |
| LHLD | 16-bit address | Load H and L registers direct | <p>The instruction copies the contents of the memory location pointed out by the 16-bit address into register L and copies the contents of the next memory location into register H. The contents of source memory locations are not altered.</p> <p>Example: LHLD 2040H</p> |

Intel 8085 Instruction Set

Atul P. Godse,Dr. Deepali A. Godse

Intel 8085 Instruction Set:

Microprocessors and Microcomputer-Based System Design Mohamed Rafiquzzaman,2021-11-01 Microprocessors and Microcomputer Based System Design Second Edition builds on the concepts of the first edition It discusses the basics of microprocessors various 32 bit microprocessors the 8085 microprocessor the fundamentals of peripheral interfacing and Intel and Motorola microprocessors This edition includes new topics such as floating point arithmetic Program Array Logic and flash memories It covers the popular Intel 80486 80960 and Motorola 68040 as well as the Pentium and PowerPC microprocessors The final chapter presents system design concepts applying the design principles covered in previous chapters to sample problems [Microprocessor and Interfacing](#) Atul P. Godse,Dr. Deepali A. Godse,2021-01-01 The book is written for an undergraduate course on the 8085 microprocessor It provides comprehensive coverage of the hardware and software aspects of the 8085 microprocessor and it introduces advanced processors from Intel family The book teaches you the 8085 architecture instruction set machine cycles and timing diagrams Assembly Language Programming ALP interrupts interfacing 8085 with support chips memory and peripheral ICs 8251 8253 8255 8259 and 8237 It also explains the interfacing of 8085 with keyboard display data converters ADC and DAC and introduces a temperature control system stepper motor control system and data acquisition system design The book also explains the architecture programming model memory segmentation addressing modes pin description of Intel 8086 microprocessor and features of Intel 80186 80286 80386 and 80486 processors **Microprocessor Instruction Sets and Software Principles** David L. Heiserman,1983 *System Software* M. Joseph,2007

MICROPROCESSOR-BASED AGRI INSTRUMENTATION

KANT, KRISHNA,2013-01-01 This book provides the fundamental concepts of system design using microprocessors in the field of agriculture instrumentation It begins with an introduction to the field of agriculture and application of instrumentation in agriculture and the book then covers the transducers specific to the agricultural field The binary number system and arithmetic are covered as the basic building block of digital circuits and computer organization The microprocessor basics and Intel 8085 hardware and software have been discussed in detail The book describes microprocessor peripheral interfacing and its support chips such as Intel 8225 Intel 8253 and Intel 8279 along with their applications It discusses analog to digital and digital to analog interface CRT terminal interface and printer interface In addition the book includes case studies on various microprocessor applications in agriculture such as microprocessor based system design for grain moisture safe grain storage soil nutrient estimation and drip irrigation Finally the book ends with an advanced and futuristic topic on precision agriculture to give an exposure to students about future developments in the agricultural system Key Features From concepts to design the book follows a step by step approach Gives a large number of figures for easy understanding of theory Includes a good number of examples and end of chapter exercises both in the hardware and software sections Presents a number of case studies on the design of microprocessor based agri

instrumentation systems Offers exercises on the case studies which can be used for further development of the concepts The book is primarily intended for the undergraduate and postgraduate students of agricultural engineering for their courses on agri instrumentation and microprocessor applications in agriculture *Microprocessors and Microcontrollers, 3rd Edition*

R.S Kaler,2019-01-05 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 8253 8254 8257 and 8259 Microprocessor applications seven segment LED display microprocessor based traffic control data acquisition system analog to digital A D converter traffic signal controller digital to analog converter Microprocessor 80XXX architecture pin configuration instructions set addressing modes interrupts multitasking and comparison with different microprocessors Microcontroller 8051 MCS 51 family overview architecture basic registers counters and timers timer counter interrupts serial data input output addressing modes push and pop opcodes instructions set arithmetic operations programming and testing the design real time operating systems RTOS ARM AVR and PIC microcontrollers architecture programming model registers and flags exception and interrupt modes instructions set PIC microcontroller family PIC16F84 microcontroller EEPROM data memory PIC16Cxx microcontroller family Embedded systems programming using Keil software instructions set for 8085 8086 and 8051 *Microprocessor Systems in Signal Processing* C. K. Yuen, K. G. Beauchamp, D. A. Fraser, 1989

Very Good No Highlights or Markup all pages are intact **Introduction to Microprocessors with the INTEL 8085** John A. Seeger, 1996-06-06 For a one semester introductory course in microprocessors this text covers the basic principles of microprocessors microprocessor systems and interfacing As an example the widely used Intel 8085A microprocessor is described in detail The 8085A provides a case study which any sophomore level engineering technology or computer science student can understand with little difficulty as opposed to the newer 16 or 32 bit microprocessors and which allows for coverage of all the important introductory concepts The book is divided into 15 Chapters Chapter 1 is an introduction to

microprocessors including an outline of their historical development and descriptions of several applications The basic architecture of microprocessors and microprocessor systems is covered in Chapters 2 and 3 Chapters 4 and 5 present programming and some basic features of the instructions The 8085A instruction set is covered in detail in Chapters 6 through 10 with examples illustrating its use Chapters 11 through 14 address input output and interfacing with numerous examples Finally Chapter 15 is a brief description of some other important microprocessors

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Beginner's Guide to Microprocessors Charles Minot Gilmore,1984 Gives Details on BASIC Logic Demonstrates the Microprocessor's Function as Integrated Circuit Also Covers I O Devices Systems Software

Osborne 16-bit Microprocessor Handbook Adam Osborne,Gerry Kane,1981 The national semiconductor PACE and INS8900 The general instrument CP 1600 The Texas instruments TMS 9900 TMS 9980 and TMS 9440 products Single chip nova microcomputer central processing units The intel 8086 The zilog Z8000 series

Microprocessor Interfacing and Communication Using the Intel SDK-85 Borivoje Furht,Himanshu Parikh,1986

Microprocessors Mohamed Rafiquzzaman,1992

Microprocessors and Microcomputer Development Systems Mohamed Rafiquzzaman,1984

Microcomputer System Design and Applications University of Michigan. Engineering Summer Conferences,1980

Introduction to Microcomputer Engineering D. A. Fraser,1985

Microprocessors and Peripherals Barry B. Brey,1988

The Microprocessor Handbook Elmer Poe,1983 Common characteristics of microprocessors The 8080 The 8085 The Z 80 The 6800 The 6802 The 6809 The 6502 A brief introduction to 16 bit processors The 8086 and 8088 The Z8000 The 68000 Parallel I O chips Serial I O chips Common memory chips

The 8080/8085 Microprocessor Book Intel Marketing Communications,1980

The Structure and Programming of Microcomputers William H. Jermann,1982

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