APPENDIX D

8085A Instruction Set Tables

Table D.1 8085A INSTRUCTIONS (MNEMONICS) IN OPERATION CODE SEQUENCE

	0	1	2	3	4	5	6	7
0	NOP	LXI B	STAX B	INX B	INR B	DCR B	MVI B	RLC
1	—	LXI D	STAX D	INX D	INR D	DCR D	MVI D	RAL
2	RIM	LXI H	SHLD	INX H	INR H	DCR H	MVI H	DAA
3	SIM	LXI SP	STA	INX SP	INR M	DCR M	MVI M	STC
4	MOV B,B	MOV B,C	MOV B,D	MOV B,E	MOV B,H	MOV B,L	MOV B,M	MOV B,A
5	MOV D,B	MOV D,C	MOV D,D	MOV D,E	MOV D,H	MOV D,L	MOV D,M	MOV D,A
6	MOV H,B	MOV H,C	MOV H,D	MOV H,E	MOV H,H	MOV H,L	MOV H,M	MOV H,A
7	MOV M,B	MOV M,C	MOV M,D	MOV M,E	MOV M,H	MOV M,L	HLT	MOV M,A
8	ADD B	ADD C	ADD D	ADD E	ADD H	ADD L	ADD M	ADD A
9	SUB B	SUB C	SUB D	SUB E	SUB H	SUB L	SUB M	SUB A
A	ANA B	ANA C	ANA D	ANA E	ANA H	ANA L	ANA M	ANA A
B	ORA B	ORA C	ORA D	ORA E	ORA H	ORA L	ORA M	ORA A
C	RNZ	POP B	JNZ	JMP	CNZ	PUSH B	ADI	RST 0

8085 Microprocessor Instruction Set Opcodes

Nigel P. Cook

8085 Microprocessor Instruction Set Opcodes:

<u>Microprocessor and its Applications</u> R Theagarajan,2004 The Book Is Aimed At Providing The Students A Detailed Knowledge Of Programming And Interfacing Of Intel 8085 And Peripherals It Is Intended For Students Of Electrical Electronics Engineering As Well As For Working Professionals Who Wish To Acquire Knowledge In This Area Apart From Providing The Necessary Theoretical Details Programming Examples Are Also Included For Most Of The Topics The Text Also Contains Details Of Many Microprocessor Applications So As To Orient The Reader To Design His Own Microprocessor Based Solutions For Practical Problems A Set Of Review Question Are Also Provided For Each Chapter <u>Microprocessors GATE, PSUS AND ES Examination</u> Satish K Karna, Test Prep for Microprocessors GATE PSUS AND ES Examination

Introduction to embedded systems Dr GOURI GOURAM BORTHAKUR,2023-10-17 This book is designed to be your comprehensive guide to understanding designing and working with embedded systems whether you are a novice enthusiast a student or a seasoned professional in the field Embedded systems are the invisible heroes that power our modern world They are the brains behind your smartphone the controllers of your car s engine and the intelligence within your home appliances These systems are omnipresent hidden in devices ranging from simple digital watches to complex spacecraft They are responsible for making our lives more comfortable efficient and secure The field of embedded systems is vast and continually evolving This book aims to provide you with a solid foundation whether you are just beginning your journey or seeking to deepen your knowledge We ve designed this book to be accessible to beginners while offering valuable insights for experienced engineers <u>Microprocessor and Microcontroller</u> Saurabh Chaudhury,Risha Mal,2025-06-01

<u>MICROPROCESSORS AND MICROCONTROLLERS</u> MATHUR, SUNIL,PANDA, JEEBANANDA ,2016-08 Primarily intended for diploma undergraduate and postgraduate students of electronics electrical mechanical information technology and computer engineering this book offers an introduction to microprocessors and microcontrollers The book is designed to explain basic concepts underlying programmable devices and their interfacing It provides complete knowledge of the Intel s 8085 and 8086 microprocessors and 8051 microcontroller their architecture programming and concepts of interfacing of memory IO devices and programmable chips The text has been organized in such a manner that a student can understand and get well acquainted with the subject independent of other reference books and Internet sources It is of greater use even for the AMIE and IETE students those who do not have the facility of classroom teaching and laboratory practice The book presents an integrated treatment of the hardware and software aspects of the 8085 and 8086 microprocessors and 8051 microcontroller Elaborated programming solved examples on typical interfacing problems and a useful set of exercise problems in each chapter serve as distinguishing features of the book <u>Microprocessor Instruction Sets and Software Principles</u> David L. Heiserman,1983 <u>Computer Programming with C++</u> Kunal Pimparkhede,2017-01-16 Provides an in depth explanation of the C and C programming languages along with the fundamentals of object oriented programming

paradigm   **The Z80 Microprocessor** Ramesh S. Gaonkar,2001 This text is intended for microprocessor courses at the undergraduate level in technology engineering and computer science Now in its third edition it provides a comprehensive treatment of the microprocessor covering both hardware and software based on the Z80 microprocessor family This edition preserves the focus of the earlier editions and includes the following changes Chapters have been revised to include the most recent technological changes in 32 and 64 bit microprocessors and 8 bit microcontrollers Several illustrative programs have been added throughout the text Complete data sheets for the LM 135 temperature sensor and LCD panel and a complete list of Z80 instructions with machine cycles T states and flags are included in the Appendixes Appendix G which contains answers to selected questions has been added   John D. Lenk's Troubleshooting & Repair of Microprocessor-based Equipment John D. Lenk,1986   **The 8080/8085 Microprocessor Book** Intel Marketing Communications,1980   *Digital Electronics with Microprocessor Applications* Alan C. Dixon,James L. Antonakos,1987 A textbook for courses in digital electronics and microprocessors offered in departments of electrical engineering technology or computer science The book covers the basics of digital logic design and the design of microprocessor based systems Also covered are computer fundamentals and microprocessor hardware and software 8085 with many programming examples The text describes most important available microprocessors with laboratory exercises instructional objectives and self evaluation questions   *American Laboratory* ,1981   *Intellectual Leverage for the Information Society* ,1983   Digest of Papers - Compcon ,1983   **Microprocessors & Microcomputers** J. T. Cain,1984   **Electrical Computer Engineering** University of Wisconsin--Madison. Department of Electrical and Computer Engineering,1981   **Mathematics for Electronics and Computers** Nigel P. Cook,2003 This book provides a complete math course for those who want to learn technology The book reinforces all math topics with extensive electronic and computer applications to show readers the value of math as a tool Midwest   **Microcomputers and Their Interfacing** R. C. Holland,1984   *Lenk's Digital Handbook* John D. Lenk,1993 An essential desktop guide to all basic aspects of digital circuits and equipment Table of Contents Digital Numbers and Codes Basic Digital Logic Typical Digital IC and Discrete Circuits Microprocessors Digital Test Equipment Digital Troubleshooting Techniques Troubleshooting Microprocessor Based Devices Troubleshooting Digital TV Circuits 150 illustrations   **Electronics** Neil Storey,1992 Neil Storey s book provides Electrical Engineering students with a set of material suitable for introductory courses in analogue and digital design

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