

Download Ebook 8085 Microprocessor
Programming And Interfacing By N K Srinath

8085 Microprocessor Programming And Interfacing By N K Srinath

A) Logic Gates (AND, OR, NOT, NAND, NOR, EX-OR):
Review of all logic gates; AND, OR, NOT, NAND,
NOR, EX-OR & their truth tables. Appropriate
combinations of gates results into an amazing &
innovative logical configuration. B) Number Systems
(Binary, Octal, Decimal & Hexadecimal): In digital,
we normally deal with four number systems of
arithmetic (I) Binary (II) Octal (III) Decimal (IV)

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Hexadecimal. The commonly used number system by all of us is decimal, while the binary number system is used by computers.

8051 Microcontroller: Internals, Instructions, Programming and Interfacing through simple language, excellent graphical annotations and a large variety of solved examples. This book includes internal architecture of 8051, instructions with examples

This book provides a thorough introduction to the Texas Instruments MSP430™ microcontroller. The MSP430 is a 16-bit reduced instruction set (RISC)

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processor that features ultra-low power consumption and integrated digital and analog hardware. Variants of the MSP430 microcontroller have been in production since 1993. This provides for a host of MSP430 products including evaluation boards, compilers, software examples, and documentation. A thorough introduction to the MSP430 line of microcontrollers, programming techniques, and interface concepts are provided along with considerable tutorial information with many illustrated examples. Each chapter provides laboratory exercises to apply what has been

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presented in the chapter. The book is intended for an upper level undergraduate course in microcontrollers or mechatronics but may also be used as a reference for capstone design projects. Also, practicing engineers already familiar with another microcontroller, who require a quick tutorial on the microcontroller, will find this book very useful. This second edition introduces the MSP-EXP430FR5994 and the MSP430-EXP430FR2433 LaunchPads. Both LaunchPads are equipped with a variety of peripherals and Ferroelectric Random Access

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Memory (FRAM). FRAM is a nonvolatile, low-power memory with functionality similar to flash memory.

Microprocessor 8085 and Its Interfacing

Architecture, Programming and Interfacing

Microprocessor Architecture, Programming, and

Systems Featuring the 8085

Microprocessor and Interfacing

Microprocessors and Microcontrollers

This book is designed as a first-level introduction to

Microprocessor 8085, covering its architecture,

programming, and interfacing aspects. Microprocessor

8085 is the basic processor from which machine

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language programming can be learnt. The text offers a comprehensive treatment of microprocessor's hardware and software. Distinguishing features : All the instructions of 8085 processor are explained with the help of examples and diagrams. Instructions have been classified into groups and their mnemonic hex codes have been derived. Memory maps of different memory sizes have been illustrated with examples. Timing diagrams of various instructions have been illustrated with examples. A large number of laboratory-tested programming examples and exercises are provided in each chapter. At the end of each chapter, numerous questions and problems have been given. Problems from

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previous years' question papers have been separately given in each chapter. More than 200 examples and problems have been covered in the entire text. This book is designed for undergraduate courses in B.Sc. (Hons) Physics and B.Sc. (Hons) Electronics. It will also be useful for the students pursuing B.Tech. degree/diploma in electrical and electronics engineering.

This book provides a thorough introduction to the Texas Instruments MSP430 microcontroller. The MSP430 is a 16-bit reduced instruction set (RISC) processor that features ultra low power consumption and integrated digital and analog hardware. Variants of the MSP430 microcontroller have been in production since 1993. This

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provides for a host of MSP430 products including evaluation boards, compilers, and documentation. A thorough introduction to the MSP430 line of microcontrollers, programming techniques, and interface concepts are provided along with considerable tutorial information with many illustrated examples. Each chapter provides laboratory exercises to apply what has been presented in the chapter. The book is intended for an upper level undergraduate course in microcontrollers or mechatronics but may also be used as a reference for capstone design projects. Also, practicing engineers already familiar with another microcontroller, who require a quick tutorial on the microcontroller, will find this book

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very useful.

An introduction to microprocessors, updated to cover recent models. Designed as a first course in microcomputers, this new edition covers the hardware and machine language software of the 8080/8085 and Z-80 8-bit microprocessors. It explores various aspects of microcomputer technology using examples of 8080/8085 and Z-80 applications.

ARCHITECTURE, PROGRAMMING AND SYSTEM
DESIGN 8085, 8086, 8051, 8096

Microcomputers and Microprocessors

The Intel Microprocessors

Microprocessors—GATE, PSUS AND ES Examination

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Architecture, Interfacing, Programming, and Design
Pentium Microprocessor Historical evolution of 80286, 386
and 486 processors, Pentium features and architecture, Pin
description, Functional description, Pentium real mode,
Pentium RISC features, Pentium super-scalar architecture -
pipelining, Instruction paring rules, Branch prediction,
Instruction and data caches The floating-point unit. Bus
Cycles and Memory Organisation Initialization and
configuration, Bus operations-reset, Non pipelined and
pipelined (read and write), Memory organisation and I/O
organisation, Data transfer mechanism-8 bit, 16 bit, 32 bit
data bus interface. Pentium programming Programmer's
model, Register set, Addressing modes, Instruction set, Data
types, Data transfer instructions, String instructions,

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Arithmetic instructions, Logical instructions, Bit manipulation instructions, Program transfer instructions and Processor control instructions. Protected Mode Introduction, Segmentation-support registers, Related instructions descriptors, Memory management through segmentation, Logical to linear address translation, Protection by segmentation, Privilege level-protection, Related instructions, Inter-privilege level transfer of control, Paging-support registers, descriptors, Linear to physical address translation, TLB, Page level protection, Virtual memory. Multitasking, Interrupts Exceptions and I/O Multitasking - Support registers, Related descriptors, Task switching, I/O Permission bit map. Virtual mode - features, Address generation, Privilege level, Instructions and registers available, entering and leaving V86

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mode. Interrupt structure - Real, Protected and Virtual 8086 modes, I/O handling in Pentium, Comparison of all three modes.8051 Micro-controllerMicro-controller MCS-51 family architecture, On-chip data memory and program memory organization - Register set, Register bank, SFRs, External data memory and program memory, Interrupts structure, Timers and their programming, Serial port and programming, Other features, Design of minimum system using 8051 micro-controller for various applications.PIC Micro-controllerOverview and features of PIC16C, PIC 16F8XX, Pin diagram, Capture mode, Compare mode, PWM mode, Block diagram, Programmer's model PIC, Reset and clocking.Memory organization - program memory, data memory, Flash, EEPROM, PIC 16F8XX addressing modes,

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Instruction set, programming, I/O ports, Interrupts, Timers, ADC.

Designed for an undergraduate course on the 8085 microprocessor, this text provides comprehensive coverage of the programming and interfacing of the 8-bit microprocessor. Written in a simple and easy-to-understand manner, this book introduces the reader to the basics and the architecture of the 8085 microprocessor. It presents balanced coverage of both hardware and software concepts related to the microprocessor.

"This text is designed to provide 'hands-on' experience to students to help them develop an understanding of the hardware components of a microprocessor and the role of software in programming and interfacing aspects of the

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microprocessor. An 8-bit microprocessor, due to its simpler instruction set and architecture, is an ideal IC chip for providing the students with a solid foundation for microprocessors, their principles and applications. The concepts of all state-of-the-art processors can be understood easily, once the basics of the 8085 are understood. Today's sophisticated microprocessors have a semblance of 8085. The presentation style adopted in this book in a way is unique. It is a student-friendly text, written as conversation between the teacher and the students. The book lucidly explains the various programming examples in assembly language with a view to enabling students to develop microprocessor-based industrial application projects. Application programs developed in the book are based on the popular microprocessor kit, namely

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SDA-85. The book is suitable for both diploma and degree level students pursuing courses in Electronics and Electrical Engineering, Electronics and Communication Engineering and Information and Communication Technology."

Microcontroller Programming and Interfacing with Texas Instruments MSP430FR2433 and MSP430FR5994 – Part I
Microprocessor (8085) Lab Manual

Ten Days with 8085 MICROPROCESSOR

Microprocessor programming, troubleshooting, and interfacing

Solutions Manual

The book provides comprehensive coverage of the hardware and software aspects of

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the 8085 microprocessor. It also introduces advanced processors from Intel family, SUN SPARC microprocessor and ARM Processor. 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 - 8255 and 8259. The book explains the features, architecture, memory addressing, operating modes, addressing modes of Intel 8086, 80286, 80386 microprocessors,

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segmentation, paging and protection mechanism provided by 80386 microprocessor and the features of 80486 and Pentium Processors. It also explains the architecture of SUN SPARC microprocessor and ARM Processor.

The first of its kind to offer an integrated treatment of both the hardware and software aspects of the microprocessor, this comprehensive and thoroughly updated book focuses on the 8085 microprocessor family to teach the basic concepts underlying programmable

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devices. A three-part organization covers concepts and applications of microprocessor-based systems: hardware and interfacing, programming the 8085, and interfacing peripherals (I/Os) and applications.

This book provides the students with a solid foundation in the technology of microprocessors and microcontrollers, their principles and applications. It comprehensively presents the material necessary for understanding the internal architecture as well as system design

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aspects of Intel's legendary 8085 and 8086 microprocessors and Intel's 8051 and 8096 microcontrollers. The book throughout maintains an appropriate balance between the basic concepts and the skill sets needed for system design. Besides, the book lucidly explains the hardware architecture, the instruction set and programming, support chips, peripheral interfacing, and cites several relevant examples to help the readers develop a complete understanding of industrial application projects. Several system

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design case studies are included to reinforce the concepts discussed. With exhaustive coverage provided and practical approach emphasized, the book would be indispensable to undergraduate students of Electrical and Electronics, Electronics and Communication, and Electronics and Instrumentation Engineering. It can be used for a variety of courses in Microprocessors, Microcontrollers, and Embedded System Design.

Second Edition

The X86 Microprocessors: Architecture And

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Programming (8086 To Pentium)

The Z80 Microprocessor

Microprocessor Programming,

Troubleshooting, and Interfacing the Z80,
8080, and 8085

8085 Microprocessors & Its Application

***This Book Presents A Thorough Treatment
Of Microprocessor Hardware And Software.
The Various Concepts Have Been Explained
In A Systematic And Integrated Manner So
As To Develop A Clear And Comprehensive
Understanding Of Microprocessor
Technology. Beginning With The***

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Fundamentals Of Digital Electronics, The Book Explains The Development And Evolution Of Various Microprocessor Generations. It Then Presents A Detailed Account Of Microprocessor Architecture, Followed By 8085 Instructions, Timing And Control And Programming. Memory Devices Are Then Thoroughly Explained, Followed By Data Transfer Schemes. The Books Then Discusses Various Contemporary Support Chips And Their Applications. Salient Features: * Numbering System, Review Of Decimal System, Binary Format, Data

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Organization, Shift And Rotates, Ascii Character Set Etc. Have Been Included In Chapter 1. * Detailed Discussion On Software Time Delay Has Been Incorporated In Chapter 6. * Memory Hierachy, Static And Dynamic Ram Cell Have Been Updated, Pin Outs Of Different Eproms Have Been Included In Chapter 7. * Electrical Characteristics Of Pit (8253/8254) And Programming Procedure For 8254 Have Been Included In Chapter 9. * Updating Of Data Bus Buffer, Irr And Isr, Command Word, Initialization Of Control Word, Table

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Summary For Initialization And Operation Of Control Word, Interfacing Etc. Have Been Done In Chapter 12.A Large Number Of Solved Examples Are Included Throughout The Text To Illustrate The Concepts And Techniques. Review And Objective Questions Are Also Included For Self Test.The Book Would Serve As An Excellent Text For Degree And Diploma Students Of Computer Science And Engineering And Electronics.

This book presents the full range of Intel 80x86 microprocessors, in context as a

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component of a comprehensive microprocessor system. It provides a thorough, single volume coverage of all Intel processors relative to their application in the PC, and is as much an introduction to the PC itself as to Intel chips. Covers all PC-related technologies, including memory, data communications, and PC bus standards. The second edition of The 8086/8088 Family: Design, Programming, and Interfacing has been revised to include the latest, most up-to-date information and technologies. This edition now covers

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Windows; a description of the MS-DOS BIOS services and function calls; two completely revised software chapters; an updated chapter on memory; coverage of the 16550 UART and common modern standards; and a new chapter on PC architecture and the common bus systems.

This up-to-date and contemporary book is designed as a first level undergraduate text on micro-processors for the students of engineering (computer science, electrical, electronics, telecommunication, instrumentation), computer applications

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and information technology. It gives a clear exposition of the architecture, programming and interfacing and applications of 8085 microprocessor. Besides, it provides a brief introduction to 8086 and 8088 Intel microprocessors. The book focusses on : microprocessors starting from 4004 to 80586. instruction set of 8085 microprocessor giving the clear picture of the operations at the machine level. the various steps of the assembly language program development cycle. the hardware architecture of microcomputer built with the

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8085 microprocessor. the role of the hardware interfaces: memory, input/output and interrupt, in relation to overall microcomputer system operation. peripheral chips such as 8255, 8253, 8259, 8257 and 8279 to interface with 8085 microprocessor and to program it for different applications.

**MICROPROCESSORS AND
MICROCONTROLLERS**

The 8086/8088 Family

**The 8085 Microprocessor: Architecture,
Programming and Interfacing: Architecture,**

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Programming and Interfacing Microprocessors Interfacing And Applications

This book provides comprehensive coverage of the Z80 microprocessor, carefully integrating hardware and software topics with practical laboratory exercises. The book provides a complete, easy-to-understand introduction to the architecture and interfacing of microprocessor-based systems, assembly language programming the Z80, interfacing peripherals, programmable I/O devices, applications, and design and more.

This text is intended for microprocessor courses at

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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,

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and flags are included in the Appendixes. Appendix G, which contains answers to selected questions, has been added.

Test Prep for Microprocessors—GATE, PSUS AND ES Examination

Microprocessors & Microcontrollers

ARCHITECTURE, PROGRAMMING, AND INTERFACING

Microprocessor 8086 : Architecture, Programming and Interfacing

Microprocessors and Interfacing

The 8085 Microprocessor

***The 8085 Microprocessor Architecture,
Programming and Interfacing Pearson***

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Education India8085

MICROPROCESSORPROGRAMMING AND

INTERFACINGPHI Learning Pvt. Ltd.

*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*

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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,

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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

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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 8051 with keyboards, LCDs and LEDs and explains the control of servomotor, stepper motors and washing machine using 8051.

Microprocessors and Interfacing is a textbook for undergraduate engineering

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students who study a course on various microprocessors, its interfacing, programming and applications.

8086/8088, 80186/80188, 80286, 80386, 80486, Pentium, Pentium Pro Processor, Pentium II, Pentium III, Pentium 4, and Core2 with 64-bit Extensions :

*Architecture, Programming, and Interfacing
Design, Programming, and Interfacing*

8085 MICROPROCESSOR

*8051 Microcontroller Architecture,
Programming and Application*

Microcontroller Programming and

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Interfacing with Texas Instruments MSP430FR2433 and MSP430FR5994

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

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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.

The 8085 Microprocessor: Architecture, Programming and Interfacing is designed for an undergraduate course on the 8085 microprocessor, this text provides comprehensive coverage of the programming and interfacing of the 8-bit microprocessor. Written in a simple and easy-to-understand manner, this book introduces the reader to the basics and the architecture of the 8085 microprocessor. It presents balanced coverage of both hardware and software concepts related to

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the microprocessor.

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

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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.

Part I & II

the Z 80, 8080, and 8085

Experiments in 8085 Microprocessor Programming and Interfacing

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MICROPROCESSOR 8085 PRACTICAL MANUAL Basics,
Programming & Interfacing
MICROPROCESSOR 8085

The book is written for an undergraduate course on the 8085 microprocessor and 8051 microcontroller. It provides comprehensive coverage of the hardware and software aspects of 8085 microprocessor and 8051 microcontroller. The book is divided into two parts. The first part focuses on 8085 microprocessor. It teaches you the 8085 architecture, instruction set, Assembly Language Programming (ALP), interfacing 8085 with support chips, memory and peripheral ICs - 8251, 8253, 8255, 8259, 8237 and 8279. It also explains the interfacing of 8085 with data converters - ADC and DAC -

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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.

Key Features --

Here's an entire learning solution in one book, complete with detailed coverage, questions, problems, and lab experiments!

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Microprocessor Architecture, Programming, and Systems Featuring the 8085 details the 8085 processor, from both a hardware and software standpoint. Readers will learn pseudo-code and flowcharting as tools in programming a microprocessor, with current, focused coverage that is perfectly written for the two-year college student. Comprehensive exposure to microprocessor architecture includes an entire chapter devoted to both the hardware and software of the 8051 Microcontroller not found in other books. Coverage also includes a uniquely thorough comparison of the 8085 microprocessor with other Motorola and Intel microprocessors. Here's an entire learning solution in one book, complete with detailed coverage, questions, problems,

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and lab experiments! Microprocessor Architecture, Programming, and Systems Featuring the 8085 details the 8085 processor, from both a hardware and software standpoint. Readers will learn pseudo-code and flowcharting as tools in programming a microprocessor, with current, focused coverage that is perfectly written for the two-year college student. Comprehensive exposure to microprocessor architecture includes an entire chapter devoted to both the hardware and software of the 8051 Microcontroller not found in other books. Coverage also includes a uniquely thorough comparison of the 8085 microprocessor with other Motorola and Intel microprocessors.

Microprocessors & Introduction to Microcontroller

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Microprocessor Architecture, Programming, and Applications
with the 8085

PROGRAMMING AND INTERFACING

The 8080, 8085, and Z-80 : Programming, Interfacing, and
Troubleshooting

8051 Microcontroller: Internals, Instructions, Programming &
Interfacing