The 8088 And 8086 Microprocessors Programming Interfacing Software Hardware And Applications  

Designers of microprocessor-based electronic equipment need a systems-level understanding of the 80x86 microcomputer. This volume offers thorough, balanced, and practical coverage of both software and hardware topics. Develops basic concepts using the 8088 and 8086 microprocessors, but the 32-bit version of the 80x86 family is also discussed. Examines how to assemble, run, and debug programs, and how to build, test, and troubleshoot interface circuits. Provides detailed coverage of floating-point processing including instruction sets, addressing modes, memory system, and interfacing. 

This fourth edition of "The Intel Microprocessors 8048/8086, 80386, 80486, Pentium, and Pentium Pro Processors: Architecture, Programming, and Interfacing" is the latest in a series of successful computer science and engineering texts geared to IBM PCs. Digital logic design or basic binary fundamentals are prerequisites, but no prior study of computers or assembly language is necessary. Also available is Ayala's The 8051 Microcontroller: Architecture, Programming, and Applications, 2nd (1997). The text has a software programming emphasis and focuses on assembly language programming and interfacing.

For one or two-semester courses in Microprocessors or Intel 16-32 Bit Chips. Future designers of microprocessor-based electronic equipment need a "systems-level" understanding of the 80x86 microcomputer. This text offers thorough, balanced, and practical coverage of both software and hardware topics. Basic concepts are developed using 8088 and 8086 microprocessors, but the 16-bit versions of the 80x86 family are also discussed. The author examines how to assemble, run, and debug programs, and how to build, test, and troubleshoot interface circuits. 

This book presents the full range of Intel 80x86 microprocessors, in context as a component of a comprehensive microprocessor system. It provides a thorough, single volume tutorial on Intel’s microprocessors: presents a complete description of each of the Intel's microprocessors, including the 8086, 80186, 80286, 80386, 80486, and the Pentium family processors. The book is written for the under graduate students of almost all departments of Engineering and Technology. It includes the latest developments in the field of microprocessors. The book is designed to help the students to develop an understanding of the 80x86 microcomputer. This text offers a practical reference to all programming and interfacing aspects of the popular Intel microprocessor family. 

This handbook helps develop programming skills on the 80x86-based microcomputers. Introduces readers to assembly language programming through a comprehensive set of input/output procedures and useful subroutines for the most popular 80x86-based operating systems. Covers fundamental data types, segment/offset addressing, assembler operation, instruction sets, and I/O programming. A large number of solved examples and check problems are provided for key programming concepts. The text includes a section on the 80x86 microprocessor family, including interface design, implementation techniques, covering the use of latches, transceivers, buffers, and programmable logic devices in the memory and I/O interfaces of the microcomputer system. A valuable handbook for self-study in learning microprocessors, for electrical engineers, electronics technicians, and all computer programmers.

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The third edition of this popular text continues integrating basic concepts, theory, design and real-life applications related to the subject technology, to enable holistic understanding of the concepts. The chapters are introduced in tune with the conceptual flow of the subject, with in-depth discussion of concepts using excellent interfacing and programming examples in assembly language features. Updated with crucial topics like ARM Architecture, Serial Communication Standard USB. New and updated chapters explaining 8051 Microcontrollers, Instruction set and Peripheral Interfacing along with Project(s) Design - Latest real-life applications like Hard drives, CD, DVD, Blue Ray Drives.

"Intel microprocessors have gained wide application in many areas of electronic communications, control systems, and desktop computer systems. This practical text is written for anyone who requires or desires a thorough knowledge of microprocessor programming and interfacing." -back cover.

For one-semester courses in Microprocessors. This text provides a systems-level understanding of the 8086 microprocessor and its hardware and software. Equal emphasis is given to both assembly language software and microcomputer circuit design.

Describes the internal structure of the 8086 and 8088 microprocessors, explains the fundamentals of programming them, and discusses their use with the IBM Personal Computer.

KEY BENEFIT: Updated and current, this book provides a comprehensive view of programming and interfacing of the Intel family of microprocessors from the 8088 through the latest Pentium 4 microprocessor. KEY TOPICS: Organized in an orderly and manageable format, it offers over 200 programming examples using the Microsoft Macro Assembler program, and provides a thorough description of each Intel family member, memory systems, and various I/O systems. MARKET: For Electronic engineering specialist, programmers, computer scientists, or electrical engineers.

This comprehensive text presents the architecture, hardware, and software features of the popular INTEL 8086/8088 family of chips in a clear, logical manner. Interrelationships between the various members of the 8086 family are clearly outlined and numerous illustrations and samples reinforce the introduction of new concepts.

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 aspects of Intel's legendary 8085 and 8086 microprocessors and Intel's 8085 and 8086 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 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.

The national semiconductor PACE and INS8900; The general instrument GP 1600; The Texas instruments TMS 9900, TMS 9980, and TMS 9440 products; Single chip nova microcomputer central processing units; The intel 8086; The sizzling 80386 series.

Includes bibliographical references and index.

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Provides comprehensive coverage of all 80x86 (8088) and 80386 instructions, assembler directives, and the most important MS-DOS and ROM BIOS functions. Progressing from simple to complex tasks, this text allows students to write complete programs, prepare them for execution, run them, and use most of the facilities of the whole computer system. Most sample programs are preceded by PASCAL and BASIC programs meeting the same specifications. Includes detailed discussions and examples of GR/W and XENV style file handling, thorough coverage of graphics, plus a thorough introduction to the 80386 coprocessor. Also included are 165 exercises, annotated tables of 80x86 and 80386 instructions, chapter summaries and lists of key words, and numerous line drawings. All 60 programs are accompanied by diskettes, eliminating the need for lengthy typing.

Explains the workings of the 99000 microprocessor and discusses how the 99000 operates as part of a microcomputer system.

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