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*In the recent years there has
been rapid advances in the field
of Digital Electronics and*

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Microprocessor. This book is intended to help students to keep pace with these latest developments. The Present book is revised version of earlier book 'Introduction to Digital Computers' by the same author. Now this book is written

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in a lucid and simple language, which gives clear explanation of basics of Digital Electronics, Computers and microprocessors. Primarily intended for diploma, undergraduate and postgraduate students of electronics, electrical,

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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

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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

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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

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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

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on typical interfacing problems, and a useful set of exercise problems in each chapter serve as distinguishing features of the book.

This introductory lab text in microprocessors for engineering, science, and computer science

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students shows how to use the Intel(R) SDK-86 design kit for scientific and engineering applications such as communication, instrumentation, and process control. Leventhal's straightforward approach makes it easy to understand tough

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concepts; for example, he provides an introduction to the uses of interfacing chips 8255 and 8251. Each lab is self-contained, with clear, detailed objectives, required equipment, and key terms. Over 70 fully tested examples and over 200

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related problems are provided.

Debugging Embedded

Microprocessor Systems

PC Magazine Programmer's

Technical Reference, the

Processor and Coprocessor

An Introduction Using the Intel

80C188EB

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***The 80286 Microprocessor
Microprocessors and
Microcomputer-Based System
Design
Advanced Processors
World first Microprocessor
INTEL 4004(a 4-bit
Microprocessor) came in***

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1971 forming the series of first generation microprocessor. Science then with more and advancement in technology ,there have been five Generations of

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Microprocessors. However the 8085, an 8-bit Microprocessor, is still the most popular Microprocessor. The present book provided a simple explanation, about the

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***Microprocessor, its
programming and
interfacing. The book
contains the
description, mainly of the
8-bit programmable
Interrupt Interval***

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**Timer/Counter
8253, Programmable
communication Interface
8251, USART 8251A and INTEL
8212/8155/8256/8755 and
8279.
Presents programming,**

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***interfacing and
applications for the
80286, 80386 and 80486
Intel microprocessors.
This text is organized
into two parts - the
microprocessor as a***

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programmable device and the microprocessor within its environment.

The book is written for an undergraduate course on the 16-bit, 32-bit and 64-bit Intel Processors.

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It provides comprehensive coverage of the hardware and software aspects of 8086, 80286, 80386, 80486 and Pentium Processors. The book uses plain and lucid language to explain

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each topic. The book provides the logical method of describing the various complicated concepts and stepwise techniques for easy understanding, making the

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*subject more interesting.
The book begins with an
overview of microcomputer
structure and operation,
microprocessor evolution
and types and the 8086
microprocessor family. It*

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***explains the 8086
architecture, instruction
set, instruction timings,
addressing modes, Assembly
Language Programming
(ALP), assembler
directives, standard***

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***program structures in 8086
assembly language, machine
coding for 8086
instructions, ALP program
development tools, 8086
interrupts, PIC 8259 and
interrupt applications. It***

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***focuses on features,
architecture, pin
description, data types,
addressing modes and newly
supported instructions of
80286 and 80386
microprocessors. It***

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***discusses various
operating modes supported
by 80386 - Real Mode,
Protected Mode and Virtual
8086 Mode. Finally, the
book focuses on
multitasking, 80486***

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***architecture and Pentium
architecture. It describes
Pentium superscalar
architecture, pipelining,
instruction pairing rules,
instruction and data
cache, floating-point unit***

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***and overview of Pentium
II, Pentium III and
Pentium IV processors.
Assembly Language Tools
and Techniques for the IBM
Microcomputers
80386 Microprocessor***

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Handbook

***The Intel Microprocessors
8086/8088, 80186, 80286,
80386, and 80486 :
Architecture, Programming,
and Interfacing
Intel486 SX Microprocessor***

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**Software Tools for the
Professional Programmer**

*Each topic is well explained by
illustration and photographs. The book
covers basic microprocessors to
advanced processors in a consistent
progression from theoretical concept to*

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design considerations. The operation of various microprocessors is described with the help of pin diagram, functional diagram and timing diagrams. A large number of working programs, problem, and the each chapter are summarized in the end.

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Appropriate for undergraduate and beginning graduate level courses on embedded systems or microprocessor based systems design in computer engineering, electrical engineering, and computer science. The basic structure, operation, and design of

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embedded systems is presented in a stepwise fashion. A balanced treatment of both hardware and software is provided. The Intel 80C188EB microprocessor is used as the instructional example. Hardware is covered starting from the component

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level. Software development focuses on assembly language. The only background required is an introductory course in digital systems design.

The book is written for an undergraduate course on the 16-bit, 32-bit and 64-bit Intel Processors. It

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provides comprehensive coverage of the hardware and software aspects of 8086/88, 80286, 80386, 80486 and Pentium Processors. The book uses plain and lucid language to explain each topic. The book provides the logical method of explaining the

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various complicated concepts and stepwise techniques for easy understanding, making the subject more interesting. The book begins with the 8086 architecture, instruction set, Assembly Language Programming (ALP) and interfacing 8086 with

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support chips, memory and I/O. It focuses on features, architecture, pin description, data types, addressing modes and newly supported instructions of 80286 and 80386 microprocessors. It discusses various operating modes supported by 80386 -

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Real Mode, Protected Mode and Virtual 8086 Mode. Finally, the book focuses on multitasking, exception handling, 80486 architecture, Pentium architecture and RISC processor. It describes Pentium superscalar architecture, pipelining, instruction

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pairing rules, instruction and data cache, floating-point unit, Pentium Pro architecture, Pentium MMX architecture, Hyper Treading Core2-Duo features and concept of RISC processor.

Microprocessors and Interfacing

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Techniques

*I486 Processor Programmer's
Reference Manual*

*Advanced Microprocessors and
Microcontrollers*

Microprocessor Data Book

THE 8086/8088, 80186/80286,

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*80386/80486 AND THE PENTIUM
FAMILY*

*1993 Product Line Handbooks:
Microprocessors (2 v.)*

*Microprocessor 8086 : Architecture,
Programming and Interfacing PHI
Learning Pvt.*

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***Ltd. MICROPROCESSORS AND
MICROCONTROLLERS PHI Learning
Pvt. Ltd.***

***Microprocessors and Microcomputer-
Based System Design, Second Edition,
builds on the concepts of the first
edition. It discusses the basics of***

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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

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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

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to sample problems.

This comprehensive text provides an easily accessible introduction to the principles and applications of microprocessors. It explains the fundamentals of architecture, assembly language programming,

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interfacing, and applications of Intel's 8086/8088 micro-processors, 8087 math coprocessors, and 8255, 8253, 8251, 8259, 8279 and 8237 peripherals. Besides, the book also covers Intel's 80186/80286, 80386/80486, and the Pentium family

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micro-processors. The book throughout maintains an appropriate balance between the basic concepts and the skill sets needed for system design. A large number of solved examples on assembly language programming and interfacing are provided to help the

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students gain an insight into the topics discussed. The book is eminently suitable for undergraduate students of Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and Instrumentation

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*Engineering, Computer Science and
Engineering, and Information
Technology.*

*Intel487 SX Math Coprocessor : Data
Book*

*Fundamental of Digital Electronics
And Microprocessors*

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Computer Fundamentals

Logic Design and the 8086

Microprocessor

IAPX 86, 88 User's Manual

Microprocessor 8086 : Architecture,

Programming and Interfacing

Coverage first concentrates on

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real-mode assembly language programming compatible with all versions of the Intel microprocessor family, and compares and contrasts advanced family member with the foundational 8086/8088.

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This building block presentation is effective because the Intel family units are so similar that learning advanced versions is easy once the basics are understood.

Briefly traces the history of

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computers and microprocessors, and discusses basic logic gates, programmable logic devices, Boolean algebra, combinational logic, sequential logic, computer memory, and 8086 instruction sets

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The book is written as per the syllabus of the subject Microprocessors and Interfacing Techniques for S. E. (Computer Engineering), Semester-II of University of Pune. It focuses on the three main parts in the

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study of microprocessors – the architecture, the programming and the system design. The 8086 microprocessor is described in detail along with glimpses of 8088, 80186 and 80188 microprocessors. The

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various peripheral controllers for 8086/88 are also discussed. Other topics that are related to the syllabus but not explicitly mentioned are included in the appendices. Key Features — Programs are given and the

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related theory is discussed within the same section, thereby maintaining a smooth flow and also eliminating the need for a separate section on the practical experiments for the subject of Microprocessors

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and Interfacing Laboratory —
Both DOS-based programs as
well as kit programs are given —
Algorithms and flowcharts are
given before DOS-based
programs for easy
understanding of the program

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logic

Microprocessors and Multicore
Systems

Dr. Dobb's Journal

Advance Microprocessor

8086/8088, 80186/80188,

80286, 80386, 80486, Pentium,

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Pentium Pro Processor, Pentium
II, Pentium III, Pentium 4, and
Core2 with 64-bit Extensions :
Architecture, Programming, and
Interfacing
Intel486 Microprocessor Family
Programmer's Reference

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Manual

Hardware, Software, and
Interfacing

*For an advanced course in
16-Bit micros, Intel chip.
Incorporates hardware,
software, and interfacing*

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*techniques geared to the
80286. Optional lab
assignments are presented at
the end of each chapter.
Includes step-by-step
examples and practice
problems.*

Debugging Embedded

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Microprocessor Systems provides techniques for engineers, technicians, and students who need to correct design faults in embedded systems. Using real-world scenarios, designers can learn practical, time-saving

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ways to avoid and repair potentially costly problems. Prevention is stressed. In this book, the author addresses hardware and software issues, including up-front design techniques to prevent bugs and contain

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design creep. Practical advice includes descriptions of common tools which can be used to help identify and repair bugs, as well as test routines. RTOS and embedded PC environments are also covered. Each chapter of

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*Debugging Embedded
Microprocessor Systems opens
with an example design
problem which illustrates
real-world issues such as
design changes, time
pressures, equipment or
component availability, etc.*

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Case studies of past debugging projects are presented in the final chapter. Addresses real-world issues like design changes, time pressures, equipment or component availability Practical, time-

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*saving methods for
preventing and correcting
design problems Covers
debugging tools and
programmer test routines
An all-in-one programmer's
guide to the personal
computer industry's most*

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*powerful chip--with
information on the Intel 486
DX2 microprocessor. Also
covers the Intel 486 SX
microprocessor for
affordable and upgradeable
entry-level system
performance. This book is*

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*organized in five parts,
including application
programming, system
programming, numeric
processing, compatibility,
and the instruction set.
A Guide for Microprocessor
Systems*

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*Embedded Microprocessor
Systems Design*

Microprocessor System

Fundamental of

*Microprocessors & its
Application*

*Pentium Processor User's
Manual*

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*The X86 Microprocessors:
Architecture And Programming
(8086 To Pentium)*

Computers these days spend a fairly low fraction of their time computing. In fact, the very word "computer" has become something of a misnomer. In the American History museum of the

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Smithsonian Institute in Washington, D.C., there is an exhibit of early computers. Three features of these machines are striking. First, they are enormous, especially in comparison to their capabilities. The museum visitor who has just come from the Natural History building next door may

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be reminded of fossilized dinosaur bones. Second, they don't look at all like modern computing machines. The cases are made of crude metal or beautifully worked wood, recalling an approach to the design of scientific apparatus which belongs to a previous generation. Lastly, the function of

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these machines is mainly to compute-
to perform rapid arithmetic. The
computer of today bears little
resemblance in size, form, or function
to its ancestors. It is, most obviously,
smaller by several orders of mag
nitude. Its form has changed from the
carefully crafted one-of-a-kind in

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strument to the mass-produced microchip. But the change in its function is perhaps the most dramatic of all. Instead of being a computing engine, it is a machine for the processing of information. The word "processor" has come into common usage. A processor used to be a

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central processing unit-a set of wires and vacuum tubes, or later a set of printed circuit boards-which was nestled deep within the computer. Today a processor is an off-the-shelf component.

Microprocessor Data Book, Second Edition focuses on the available types

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of microprocessors and microcomputers, including description of internal architecture, instruction set, main electrical data, and package details of these instruments. The book first elaborates on 4-bit and 8-bit microprocessors and microcomputers. Discussions focus on Advanced Micro

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Devices Am2900 series, Hitachi HMCS40 series, Motorola MC6801 and MC6803, Motorola MC6809 series, Rockwell R6500/1 series, and RCA 1800 series. The text then examines 16-bit and 32-bit microprocessors and microcomputers. Topics include Intel 80286

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microprocessor, Motorola 68010, Texas Instruments TMS9980, Zilog Z8000 series, Motorola 68020 processor, and National 32032. The manuscript takes a look at other support devices, peripheral device controllers, and serial I/O devices, including Motorola MC6850 ACIA,

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Texas Instruments TMS9902 ACC, Thomson EFCIS EF9365/6, and floppy disk controllers. The publication is a valuable source of information for computer science experts and researchers interested in microprocessors and microcomputers. This book is written for the high level

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user interested in details of the i486 microprocessor architecture. The book is divided into five major sections: application programming, system programming, numeric processing, compatibility and instruction set.

80386, 80486, and Pentium
Microprocessors

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The Intel 32-bit Microprocessors
MICROPROCESSORS
80386 Technical Reference
Architecture, Software, and Interfacing
Techniques
Real-Time Software Design
Provides detailed information on internal
processor operation, the instruction set, chip

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architecture, and opcodes

Discusses the Architecture & Characteristics
of the 8086 Chip, & Details Programming
Concepts, Techniques, & Structure

The 8086 Microprocessor

8086/8088, 80286, 80386, and 80486

Assembly Language Programming

Architecture and Organization

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Microprocessor 8085, 8086

MICROPROCESSORS AND

MICROCONTROLLERS

80286, 80386, and 80486