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Alexandra
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the Discipline,
Defining the
Canon Du Bois,
W. E. B.

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of Women Edward
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Masculinism

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Husbands and
Wives Robert E.
Park
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Sophonisba P.
Breckinridge
(1866-1948) on
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Margaret Mead
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Basis of Sex
Difference

Willard Walter
Waller

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Alva Myrdal
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Women's

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Conflicting
Roles Talcott
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Sex in the
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Roles Gunnar

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Contradictions
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Staughton Lynd

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Roles The
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Mirra

Komarovsky
(1905-1998),

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Functional
Analysis of Sex
Roles Helen
Mayer Hacker on
Women as a
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Wife Talcott
Parsons and
Robert F. Bales

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on the
Functions of
Sex Roles Alva
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Viola Klein
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Women's Two
Roles Helen
Mayer Hacker on
the New Burdens
of Masculinity
Key Features --

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Contributed
articles.

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and Peripherals
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Methods in
Power System
Analysis
An Introduction
to Systems
Programming
Microprocessors

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and Microcontro
llers

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& PERIPHERALS

This text is an introduction to the design and implementation of various types of system software. A central theme of the book is the

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**relationship
between machine
architecture and
system software.
Microprocessors
and Interfacing is a
textbook for
undergraduate
engineering
students who
study a course on
various
microprocessors,
its interfacing,**

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programming and applications.

The book is written for an

undergraduate course on the 8086 microprocessor and 8051

microcontroller. It provides

comprehensive coverage of the hardware and

software aspects

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of 8086

**microprocessor
and 8051
microcontroller.**

**The book is divided
into three parts.**

**The first part
focuses on 8086
microprocessor. It
teaches you the
8086 architecture,
instruction set,
Assembly
Language**

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Programming (ALP), interfacing 8086 with support chips, memory, and peripherals such as 8251, 8253, 8255, 8259, 8237 and 8279. It also explains the interfacing of 8086 with data converters - ADC and DAC and introduces a traffic

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light control system. The second part focuses on multiprogramming and multiprocessor configurations, numeric processor 8087, I/O processor 8089 and introduces features of advanced processors such as

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**80286, 80386,
80486 and Pentium
processors. The
third part focuses
on 8051
microcontroller. It
teaches you the
8051 architecture,
instruction set,
programming 8051
and interfacing
8051 with external
memory. It
explains**

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**timers/counters,
serial port,
interrupts of 8051
and their
programming. It
also describes the
interfacing 8051
with data
converters - ADC
and DAC,
keyboards, LCDs,
LEDs, stepper
motors, and
sensors.**

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**Programming and
Hardware
Evolutionary
Concepts,
Principles, and
Designs
The X86
Microprocessor, 2e
Linking Perception
to Action
Microprocessors &
Microcontrollers**

*The book is written for
an undergraduate*

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*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,*

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*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,*

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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,

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pin description of Intel 8086 microprocessor, and features of Intel 80186, 80286, 80386, and 80486 processors.

The present book has been thoroughly revised and lot of useful material has been added .saveral photographs of electronic devices and their specifications

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sheets have been included. This will help the students to have a better understanding of the electronic devices and circuits from application point of view. The mistake and misprints, which has crept in, have been eliminated in this edition.

*For introductory-level
Microprocessor*

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*courses in the
departments of
Electronic Engineering
Technology,
Computer Science, or
Electrical Engineering.
The INTEL
Microprocessors:
8086/8088,
80186/80188, 80286,
80386, 80486,
Pentium, Pentium Pro
Processor, Pentium II,
Pentium III, Pentium*

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4, and Core2 with 64-bit Extensions, 8e provides a comprehensive view of programming and interfacing of the Intel family of Microprocessors from the 8088 through the latest Pentium 4 and Core2 microprocessors. The text is written for students who need to

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learn about the programming and interfacing of Intel microprocessors, which have gained wide and at times exclusive application in many areas of electronics, communications, and control systems, particularly in desktop computer systems. A major new feature of

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this eighth edition is an explanation of how to interface C/C++ using Visual C++ Express (a free download from Microsoft) with assembly language for both the older DOS and the Windows environments. Many applications include Visual C++ as a basis for learning assembly

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*language using the
inline assembler.*

*Updated sections that
detail new events in
the fields of
microprocessors and
microprocessor
interfacing have been
added. Organized in
an orderly and
manageable format,
this text offers more
than 200
programming*

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examples using the Microsoft Macro Assembler program and provides a thorough description of each of the Intel family members, memory systems, and various I/O systems. Programming and Interfacing the PC Programming, Interfacing, Software, Hardware, and

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Applications :

*Including the 80286,
80386, 80486, and
the Pentium*

Processors

*Microprocessor 8085
and Its Interfacing*

Microprocessor

Architecture,

Programming, and

*Applications with the
8085*

The 8051

Microcontroller and

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Microprocessor
*Embedded Systems
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*

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Microprocessor

*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*

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*related to the
microprocessor.*

In contrast to classical image analysis methods that employ "crisp" mathematics, fuzzy set techniques provide an elegant foundation and a set of rich methodologies for diverse image-processing tasks.

However, a solid

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*understanding of fuzzy
processing requires a
firm grasp of essential
principles and
background*

*knowledge. Fuzzy
Image Processing and
Applications with
MATLAB® presents
the integral science and
essential mathematics
behind this exciting and
dynamic branch of*

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image processing, which is becoming increasingly important to applications in areas such as remote sensing, medical imaging, and video surveillance, to name a few. Many texts cover the use of crisp sets, but this book stands apart by exploring the explosion of interest and

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significant growth in fuzzy set image processing. The distinguished authors clearly lay out theoretical concepts and applications of fuzzy set theory and their impact on areas such as enhancement, segmentation, filtering, edge detection, content-based image retrieval,

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*pattern recognition,
and clustering. They
describe all*

*components of fuzzy,
detailing preprocessing,
threshold detection,
and match-based*

*segmentation. Minimize
Processing Errors*

*Using Dynamic Fuzzy
Set Theory This book
serves as a primer on*

MATLAB and

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demonstrates how to implement it in fuzzy image processing methods. It illustrates how the code can be used to improve calculations that help prevent or deal with imprecision—whether it is in the grey level of the image, geometry of an object, definition of an object's edges or

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*boundaries, or in
knowledge
representation, object
recognition, or image
interpretation. The text
addresses these
considerations by
applying fuzzy set
theory to image
thresholding,
segmentation, edge
detection,
enhancement,*

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*clustering, color
retrieval, clustering in
pattern recognition,
and other image
processing operations.
Highlighting key ideas,
the authors present the
experimental results of
their own new fuzzy
approaches and those
suggested by different
authors, offering data
and insights that will be*

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*useful to teachers,
scientists, and
engineers, among
others.*

*The title uses a word
advanced because this
has been implemented
in some of the
countries but it has
some limitations and
negative aspects in the
existing system. Here
we give solutions for*

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those issues and made

this useful for

investigation purpose

which was not there in

the earlier system.

A Textbook of Applied

Electronics

Adv Microprocessors

& Periph 2E

Microprocessors And

Interfacing 2E

Advanced

Microprocessors &

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Peripherals

System Software

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

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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

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explaining 8051
Microcontrollers,
Instruction set and
Peripheral Interfacing
along with Project(s)
Design • Latest real-
life applications like
Hard drives, CDs,
DVDs, Blue Ray
Drives

The book focuses on
8051 microcontrollers
and prepares the
students for system

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development using the 8051 as well as 68HC11, 80x96 and lately popular ARM family microcontrollers. A key feature is the clear explanation of the use of RTOS, software building blocks, interrupt handling mechanism, timers, IDE and interfacing circuits. Apart from

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the general architecture of the microcontrollers, it also covers programming, interfacing and system design aspects.

The textbook on microprocessors and microcontrollers has been developed as per the latest syllabus requirements of ECE, CSE & IT branches of

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engineering. Its lucid explanation and strong features such as design-based exercises, ample examples, review questions and assembly language programming examples lay a solid foundation for the subject.

MICROPROCESSOR
S AND MICROCONT
ROLLERS

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Microprocessor

Adv Microprocessors

Interfacing

Pioneers in Quantum

Mechanics

Microcontrollers

8086/8088,

80186/80188, 80286,

80386, 80486, Pentium,

Pentium Pro

Processor, Pentium II,

Pentium III, Pentium

4, and Core2 with

64-bit Extensions :

Architecture,

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Microprocessor

Programming, and
Interfacing

*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*

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8085

microprocessor family to teach the basic concepts underlying programmable devices. A three-part organization covers concepts and applications of microprocessor-based systems: hardware

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Microprocessor
*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,*

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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

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Microprocessor

*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

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Microprocessor
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*

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industrial

application projects.

*Several system
design case studies*

are included to

reinforce the

concepts discussed.

With exhaustive

coverage provided

and practical

approach

emphasized, the

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*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*

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*Microprocessors,
Microcontrollers,
and Embedded
System Design.
Computer
organization and
architecture is
becoming an
increasingly
important core
subject in the areas
of computer science*

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Microprocessor

*and its applications,
and information
technology*

*constantly steers the
relentless revolution
going on in this
discipline. This
textbook demystifies
the state of the art
using a simple and
step-by-step
development from*

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traditional

*fundamentals to the
most advanced
concepts entwined
with this subject,
maintaining a
reasonable balance
among various
theoretical
principles, numerous
design approaches,
and their actual*

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practical

*implementations.
Being driven by the
diversified
knowledge gained
directly from
working in the
constantly changing
environment of the
information
technology (IT)
industry, the author*

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sets the stage by describing the modern issues in different areas of this subject. He then continues to effectively provide a comprehensive source of material with exciting new developments using a wealth of concrete

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examples related to recent regulatory changes in the modern design and architecture of different categories of computer systems associated with real-life instances as case studies, ranging from micro to mini, supermini,

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mainframes, cluster

architectures,

massively parallel

processing (MPP)

systems, and even

supercomputers with

commodity

processors. Many of

the topics that are

briefly discussed in

this book to conserve

space for new

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*materials are
elaborately
described from the
design perspective to
their ultimate
practical
implementations
with representative
schematic diagrams
available on the
book's website. Key
Features*

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*evolutions and their
chronological*

*improvements with
illustrations taken*

*from Intel, Motorola,
and other leading*

*families Multicore
concept and*

*subsequent
multicore*

processors, a new

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*standard in
processor design
Cluster architecture,
a vibrant
organizational and
architectural
development in
building up
massively
distributed/parallel
systems InfiniBand,
a high-speed link for*

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*use in cluster system
architecture
providing a single-
system image
FireWire, a high-
speed serial bus
used for both
isochronous real-
time data transfer
and asynchronous
applications,
especially needed in*

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*multimedia and
mobile phones
Evolution of
embedded systems
and their specific
characteristics Real-
time systems and
their major design
issues in brief
Improved main
memory
technologies with*

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their recent releases

of DDR2, DDR3,

Rambus DRAM, and

Cache DRAM,

widely used in all

types of modern

systems, including

large clusters and

high-end servers

DVD optical disks

and flash drives (pen

drives) RAID, a

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*common approach to
configuring multiple-
disk arrangements
used in large server-
based systems A
good number of
problems along with
their solutions on
different topics after
their delivery
Exhaustive material
with respective*

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figures related to the

entire text to

illustrate many of

the computer design,

organization, and

architecture issues

with examples are

available online at h

ttp://crcpress.com/9

780367255732 This

book serves as a

textbook for

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graduate-level

*courses for computer
science engineering,
information
technology,
electrical
engineering,
electronics
engineering,
computer science,
BCA, MCA, and
other similar*

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courses.

*Computer
Organization &
Architecture 7e
Microprocessors
and Interfacing
Microprocessor
8085, 8086
The 8088 And 8086
Microprocessors: Pr
ogramming, Interfaci
ng, Software, Hardwa*

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Microprocessor
re And Applications,
4/E

*The 8088 and 8086
Microprocessors*

Keeping students on the forefront of technology, this text offers a practical reference to all programming and interfacing aspects of the popular Intel microprocessor family. This second edition of

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The x86

Microprocessors has been revised to present the hardware and software aspects of the subject in a logical and concise manner.

Designed for an undergraduate course on the 16-bit microprocessor and Pentium processor, the book provides a detailed analysis of the x86

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family architecture while laying equal emphasis on its programming and interfacing attributes. The book also covers 8051 Microcontroller and its applications completely.

Tomorrow's robots, which includes the humanoid robot, can perform task like tutoring children,

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working as tour guides, driving humans to and from work, do the family shopping etc.

Tomorrow's robots will enhance lives in ways we never dreamed possible.

No time to attend the decisive meeting on Asian strategy? Let your robot go for you and make the decisions. Not feeling well enough to go to the clinic? Let Dr

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Robot come to you,
make a diagnosis, and
get you the necessary
medicine for treatment.
No time to coach the
soccer team this week?
Let the robot do it for
you. Tomorrow's robots
will be the most exciting
and revolutionary things
to happen to the world
since the invention of
the automobile. It will
change the way we

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work, play, think, and live. Because of this, nowadays robotics is one of the most dynamic fields of scientific research. These days, robotics is offered in almost every university in the world. Most mechanical engineering departments offer a similar course at both the undergraduate and graduate levels. And

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increasingly, many computer and electrical engineering departments are also offering it. This book will guide you, the curious beginner, from yesterday to tomorrow. The book will cover practical knowledge in understanding, developing, and using robots as versatile equipment to automate

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a variety of industrial processes or tasks. But, the book will also discuss the possibilities we can look forward to when we are capable of creating a vision-guided, learning machine.

Readership: Upper-level undergraduates, graduates and researchers in robotics & automated systems, artificial intelligence,

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machine perception and
computer vision.

The 8085

Microprocessor:

Architecture,

Programming and

Interfacing:

Architecture,

Programming and

Interfacing

Architecture,

Programming,

Interfacing and System

Design

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Dirac and Feynman
Microprocessor 8086 :
Architecture,
Programming and
Interfacing

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***This book is
suitable for a
one-semester
course on
advanced
microprocessors***

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**- their
architectures,
programming,
hardware
interfacing and
applications.
The purpose of
the book is to
provide the
readers with a
good foundation
on
microprocessors,
their princ.**

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Intended for the beginning programming student taking the first course on the 8086, a 16-bit microprocessor manufactured by Intel. It serves as a companion text to Ayala's The 8051 Microcontroller:

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**Architecture,
Programming, and
Applications,
2nd (1997). The
text has a
software
programming
emphasis and
focuses on
assembly
language geared
to IBM PCs.
Digital logic
design or basic**

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binary

fundamentals are prerequisites, but no prior study of computers or assembly language is necessary. ALSO AVAILABLE INSTRUCTOR SUPPLEMENTS CALL CUSTOMER SUPPORT TO ORDER

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