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LONDON MARQUISE

MICROPROCESSOR 8085 Technical Publications

Test Prep for Microprocessors—GATE, PSUS AND ES Examination

MICROPROCESSORS AND MICROCONTROLLERS Technical Publications

Building on solid state device and electromagnetic contributions to the series, this text book introduces modern power electronics, that is the application of semiconductor devices to the control and conversion of electrical power. The increased availability of solid state power switches has created a very rapid expansion in applications, from the relatively low power control of domestic equipment, to high power control of industrial processes and very high power control along transmission lines. This text provides a comprehensive introduction to the entire range of devices and examines their applications, assuming only the minimum mathematical and electronic background. It covers a full year's course in power electronics. Numerous exercises, worked examples and self assessments are included to facilitate self study and distance learning.

VHDL Programming Technical Publications

The book enumerates the concepts related to C programming language. The best way to learn any programming language is through examples. The book uses the same approach - each concept is followed by an appropriate example to understand the implementation of the learned concepts. The book begins with the basic components of a computer and their functions, concepts of hardware and software, types of software, compilers, interpreter, linkers and loaders, programming languages, flowcharts and algorithms. The book explains C program structure, data types, constants, variables, expressions, operators, I/O functions and control structures. It teaches you how to use arrays, strings, functions, pointers, files, structures, dynamic memory allocation, storage classes and command line arguments. It also explains the searching and sorting algorithms. Questions and answers at the end of each chapter help readers to revise the essential concepts covered in the chapter.

Computer Graphics and Multimedia John Wiley & Sons

This thoroughly updated and expanded second edition is an authoritative resource on industrial measurement systems and sensors, with particular attention given to temperature, stress, pressure, acceleration, and liquid flow sensors. This edition includes new and expanded chapters on wireless measuring systems and measurement control and diagnostics systems in cars. Moreover, the book introduces new, cost-effective measurement technology utilizing www servers and LAN computer networks - a topic not covered in any other resource. Coverage of updated wireless measurement systems and wireless GSM/LTE interfacing make this book unique, providing in-depth, practical knowledge. Professionals learn how to connect an instrument to a computer or tablet while reducing the time for collecting and processing measurement data. This hands-on reference presents digital temperature sensors, demonstrating how to design a monitoring system with multipoint measurements. From computer-based measuring systems, electrical thermometers and pressure sensors, to conditioners, crate measuring systems, and virtual instruments, this comprehensive title offers engineers the details they need for their work in the field.

Logic Design and Computer Organization Walter de Gruyter GmbH & Co KG

The book presents the fundamentals of ARM processor in a simple, lucid and systematic way. It also gives comprehensive coverage of the popular ARM microcontroller - LPC2148. The book is divided into two parts. The first part focuses on the RISC design philosophy, ARM design philosophy, embedded system hardware, embedded system software, ARM processor fundamentals, instruction set, programming, exceptions and interrupt handling schemes. The second part focuses on LPC2148 CPU, its features, architecture, registers, GPIO, Timers, Interrupt controller, PLL and other peripherals.

Digital IC Applications Elsevier

This book presents the basic concepts used in designing and analyzing digital circuits and introduces digital computer organization and design principles. The first part of the book teaches you the number systems, logic gates, logic families, Boolean algebra, simplification of logic functions, analysis and design of combinational circuits using SSI and MSI circuits. It also explains latches and flip-flops, Types of counters - synchronous and asynchronous, counter design and applications, and shift registers and its applications. The second part of the book teaches you functional units of computer, Von Neumann and Harvard architectures, processor organization, control unit - hardwired control unit and microprogrammed control unit, processor instructions, instruction cycle, instruction formats, instruction pipelining, RISC and CISC architectures, interrupts, interrupt handling, multiprocessor systems, multicore processors, memory and I/O organizations.

Digital Design Technical Publications

The book is written for an undergraduate course on Digital Electronics. The book provides basic concepts, procedures and several relevant examples to help the readers to understand the analysis and design of various digital circuits. The book uses plain and lucid language to explain each topic. A large number of design examples with commercially available SSI and MSI chips is the feature of this book. The book begins with the CMOS, TTL and ECL logic families. It teaches you the analysis and design of combinational and sequential circuits using SSI and MSI chips. It provides in-depth information about multiplexers, de-multiplexers, decoders, encoders, priority encoders, devices for arithmetic operations, multipliers, tri-state

devices, comparators, parity circuits, various types of flip-flops, counters and registers. It also covers semiconductor memories and programmable logic devices.

Digital Electronics and Introduction to Microprocessors and Microcontrollers Technical Publications

The book covers all the aspects of theory, analysis, and design of Electron Devices and Circuits for the undergraduate course. The concepts of p-n junction devices, BJT, JFET, MOSFET, electronic devices including UJT, thyristors, IGBT, Amplifier circuits-BJT, JFET and MOSFET amplifiers, multistage and differential amplifiers, feedback amplifiers, and oscillators are explained comprehensively. The book explains various p-n junction devices, including diode, LED, laser diode, Zener diode, and Zener diode regulator. The different types of rectifiers are explained in support. The book covers the construction, operation, and characteristics of BJT, JFET, MOSFET, UJT, Thyristors - SCR, Diac and Triac, and IGBT. It explains the biasing of BJT, JFET, and MOSFET amplifiers, basic BJT, JFET, and MOSFET amplifiers with h-parameters and r-parameters equivalent circuits, multistage amplifiers, differential amplifiers, BiCMOS amplifier, single tuned amplifiers, neutralization methods, power amplifiers, and frequency response. Finally, the book incorporates a detailed discussion of the analysis of the current series, voltage series, current shunt, and voltage shunt feedback amplifiers. The book also includes the discussion of the Barkhausen criterion for oscillations and the detailed analysis of various oscillator circuits, including RC phase shift, Wien bridge, Hartley, Colpitt's, Clapp, and crystal oscillators. The book uses straightforward and lucid language to explain each topic. The book provides the logical method of describing the various complicated issues and stepwise methods to make understanding easy. The variety of solved examples is the feature of this book. The book explains the subject's philosophy, which makes understanding the concepts evident and makes the subject more interesting.

Object Oriented Programming MIT Press

The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.

Introduction to Power Electronics Technical Publications

The Verilog hardware description language (HDL) provides the ability to describe digital and analog systems. This ability spans the range from descriptions that express conceptual and architectural design to detailed descriptions of implementations in gates and transistors. Verilog was developed originally at Gateway Design Automation Corporation during the mid-eighties. Tools to verify designs expressed in Verilog were implemented at the same time and marketed. Now Verilog is an open standard of IEEE with the number 1364. Verilog HDL is now used universally for digital designs in ASIC, FPGA, microprocessor, DSP and many other kinds of design-centers and is supported by most of the EDA companies. The research and education that is conducted in many universities is also using Verilog. This book introduces the Verilog hardware description language and describes it in a comprehensive manner. Verilog HDL was originally developed and specified with the intent of use with a simulator. Semantics of the language had not been fully described until now. In this book, each feature of the language is described using semantic introduction, syntax and examples. Chapter 4 leads to the full semantics of the language by providing definitions of terms, and explaining data structures and algorithms. The book is written with the approach that Verilog is not only a simulation or synthesis language, or a formal method of describing design, but a complete language addressing all of these aspects. This book covers many aspects of Verilog HDL that are essential parts of any design process.

Digital Design using Verilog HDL Technical Publications

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 - 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.

Microprocessors & Microcontrollers PHI Learning Pvt. Ltd.

This comprehensive text on switching theory and logic design is designed for the undergraduate students of electronics and communication engineering, electrical and electronics engineering, electronics and instrumentation engineering, telecommunication engineering, computer science and engineering, and information technology. It will also be useful to AMIE, IETE and diploma students. Written in a student-friendly style, this book, now in its Second Edition, provides an in-depth knowledge of switching theory and the design techniques of digital circuits. Striking a balance between theory and practice, it covers topics ranging from number systems, binary codes, logic gates and Boolean algebra to minimization using K-maps and tabular method, design of combinational logic circuits, synchronous and asynchronous sequential circuits, and algorithmic state machines. The book discusses threshold gates and programmable logic devices (PLDs). In addition, it elaborates on flip-flops and shift registers. Each chapter includes several fully worked-out examples so that the students get a thorough grounding in related design concepts. Short questions with answers, review questions, fill in the blanks, multiple choice questions and problems are provided at the end of each chapter. These help the students test their level of understanding of the subject and prepare for examinations confidently. NEW TO THIS EDITION • VHDL programs at the end of each chapter • Complete answers with figures • Several new problems with answers

Computer Graphics PHI Learning Pvt. Ltd.

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 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 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 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 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 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.

MICROPROCESSORS AND MICROCONTROLLERS PHI Learning Pvt. Ltd.

The book is written for an undergraduate course on the 16-bit, 32-bit and 64-bit Intel Processors. 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 each topic. The book provides the logical method of describing the various complicated concepts and stepwise techniques for easy understanding, making the subject more interesting. The book begins with an overview of microcomputer structure and operation, microprocessor evolution and types and the 8086 microprocessor family. It explains the 8086 architecture, instruction set, instruction timings, addressing modes, Assembly Language Programming (ALP), assembler directives, standard program structures in 8086 assembly language, machine coding for 8086 instructions, ALP program development tools, 8086 interrupts, PIC 8259 and interrupt applications. 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 - Real Mode, Protected Mode and Virtual 8086 Mode. Finally, the book focuses on multitasking, 80486 architecture and Pentium architecture. It describes Pentium superscalar architecture, pipelining, instruction pairing rules, instruction and data cache, floating-point unit and overview of Pentium II, Pentium III and Pentium IV processors.

The Complete Verilog Book Technical Publications

The book presents comprehensive coverage of fundamental computer graphics concepts in a simple, lucid, and systematic way. It uses C programming language to implement various algorithms explained in the book. It also introduces the popular OpenGL programming language with illustrative examples of the multiple primitive functions in OpenGL. The book teaches you a wide range of exciting topics such as graphics devices, scan conversion, polygons, segments, 2D and 3D transformations, windowing and clipping, 3D object representation, illumination models and shading algorithms, colour models, visible surface detection algorithms, curves, grammar-based models, turtle graphics, ray tracing, and fractals. The book also explains concepts in animation.

COMPUTER ORGANIZATION AND ARCHITECTURE Technical Publications

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 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, 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 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.

Advanced Processors Technical Publications

For courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department. Digital Design, fifth edition is a modern update of the classic authoritative text on digital design. This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications.

SWITCHING THEORY AND LOGIC DESIGN Technical Publications

The book is written for an undergraduate course on Hardware Description Languages. It provides comprehensive coverage of the VHDL (VHSIC-HDL, Very High Speed Integrated Circuit Hardware Description Language). It also introduces Verilog HDL. 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 explains the structure of VHDL module, operators, data objects and data types used in VHDL. It describes various modeling styles - Behavioral Modeling, Data Flow Modeling, Structural Modeling, Switch-Level Modeling and Mixed-Type Descriptions, with important concepts involved in them. It also introduces the structure of the Verilog HDL module, operators, data types and compares VHDL and Verilog HDL.

Microprocessor and Interfacing PHI Learning Pvt. Ltd.

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

ARM Controller McGraw-Hill/Glencoe

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, 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 mode. Interrupt structure - Real, Protected and Virtual 8086 modes, I/O handling in Pentium, Comparison of all three modes. 8051 Micro-controller Micro-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-controller Overview 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, Instruction set, programming, I/O ports, Interrupts, Timers, ADC.