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9780131129849: Microcontroller Technology: The 68HC11 ...

Microcontroller Technology The 68hc11 And The 68HC11 (6811 or HC11 for short) is an 8-bit microcontroller (μ C) family introduced by Motorola in 1984. Now produced by NXP Semiconductors, it descended from the Motorola 6800 microprocessor by way of the 6809.It is a CISC microcontroller. The 68HC11 devices are more powerful and more expensive ...

Microcontroller Technology The 68hc11 And 68hc12 5th Edition

microcontroller technology the 68hc11 5th edition spasov peter 9780131129849 books specifically the very popular motorola 68hc11 and 68hc12 covering a wide range of topics at a wide range of levels it serves as a guide to real time control software and interfacing and concentrates on applications throughout encouraging hands on for introductory courses in microcontrollers microprocessors and ...

This updated edition continues to provide readers with the background needed to understand and use microcontrollers, specifically the popular Motorola 68HC11. The 68HC11 is relatively easy to work with and has most of the features essential for a complete control system. The book starts at an introductory level by explaining the applications and origins of microcontrollers. Next, a programmer's view of the device is developed. Finally, the hardware is described and the reader learns how to connect it to the outside world for control applications. Many changes have been made to this edition: To acknowledge the prominence of C programming, the topic is introduced earlier and the text uses C program examples throughout. A CD-ROM containing source code, a special demo version of the THRSim11 simulator, a IC11 demo C compiler, a cross assembler, fuzzy logic tools, and assorted electronic design tools is included. Because it provides a practical way to explore programming and interfacing concepts, readers will find the simulator extremely useful. Chapter openers now list learning objectives to help the reader pick out the important points in each chapter. Numerous helpful appendices have been added to reinforce key topics. This book is an excellent guide and reference, and it will prove indispensable to students of control automation and interested amateurs, as well as to experienced users of microcontrollers. An Instructor's Manual (ISBN 0-13-033248-8) is available free of charge to instructors using the book for a course.

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Appropriate for courses in Introduction to Microprocessors/Microcontrollers, Interfacing, Control Automation and Control Systems, or Robotics. Material is thoroughly updated and expanded to include the latest concepts and terminology. Uses assembly language source code for the free ASiI assembler, the assembler of choice. Five-part organizational format covers I. Introducing Microcontroller Technology; II. Software; III. Hardware; IV. Interfacing; V. The Microcontroller World.

This book will help the technician, engineer and user understand the microcontroller-based systems along with the most common problems and their solutions. This book covers design, specification, programming, installation, configuration and of course troubleshooting. - An engineer's guide to the design, applications and troubleshooting of microcontroller-based systems - The introductory chapters on embedded microcontroller architecture and programming are written at the right level with an applications focus for practicing engineers - A highly topical book with a wide readership involved with product design and industrial processes including control systems

Microcontroller Programming: An Introduction is a comprehensive one-stop resource that covers the concepts, principles, solution development, and associated techniques involved in microcontroller-based systems. Focusing on the elements and features of the popular and powerful Motorola 68HC11 microcontroller IC as a representative example, this book

This is the first book to describe, in detail, the new Motorola 68HC12 microcontroller, how to program it, and how to design embedded systems using the 68HC12. It shows how WHYP (a version of Forth written specifically for this book) can be used to program the new 68HC12 microcontroller in an efficient and interactive way. It includes an abundance of worked examples and complete C++ code for the WHYP host that runs on the PC. Subroutines and Stacks. 68HC12 Arithmetic. WHYP-An Extensible Language. Branching and Looping. Parallel Interfacing. The Serial Peripheral Interface (SPI). Analog-to-Digital Converter. Timers. The Serial Communications Interface (SCI). Designing with Interrupts. Strings and Number Conversions. Program Control and Data Structures. Fuzzy Control. Special Topics. WHYP12 C++ Classes. WHYP12 C++ Main Program. For electrical and computer engineers who want to learn about the new Motorola 68HC12 microcontroller, how to program it, and how to design embedded systems using it.

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