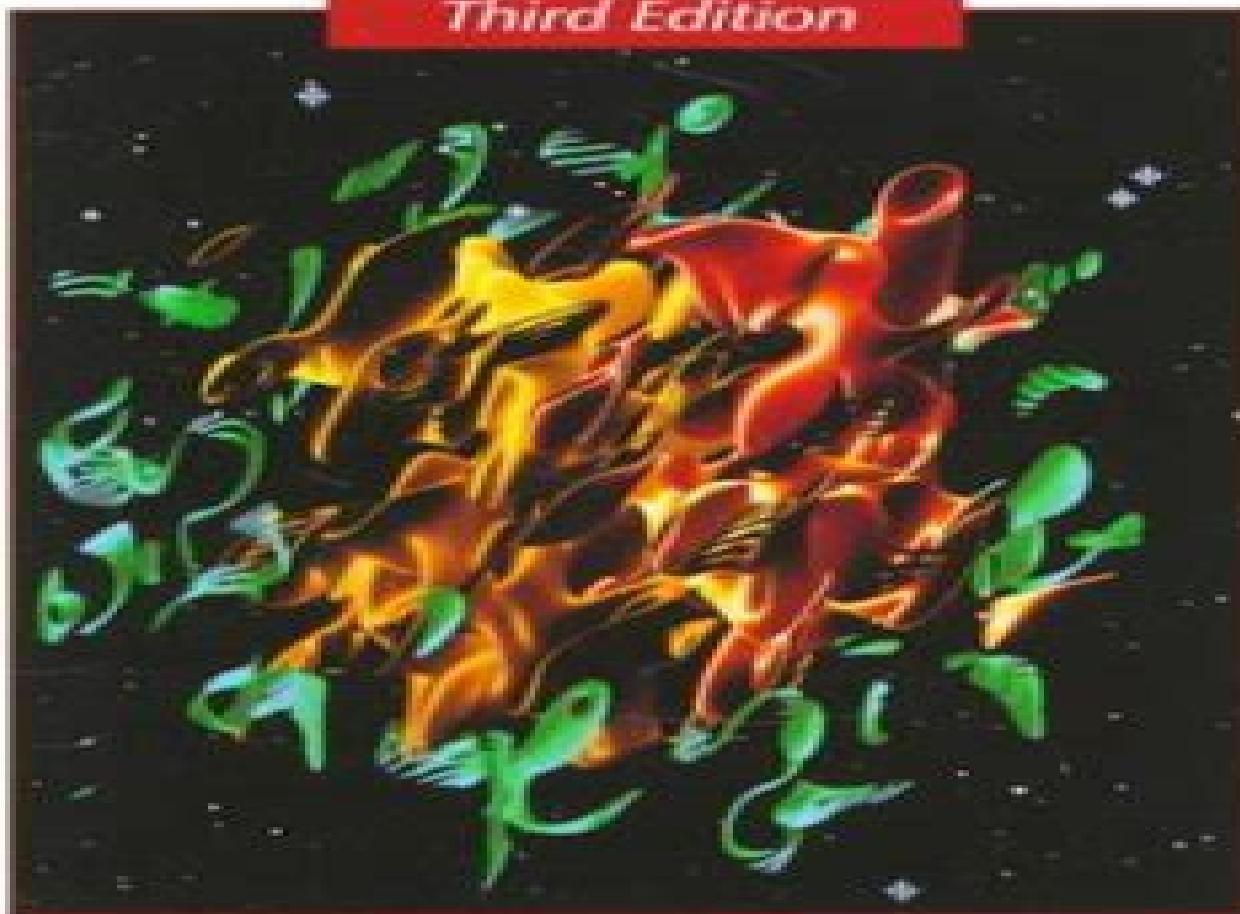


MICROCONTROLLER TECHNOLOGY

The 68HC11

Third Edition



Peter Spasov

Microcontroller Technology The 68hc11 And 68hc12 5th Edition

Han-Way Huang

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Microcontroller Technology Peter Spasov,2004 CD ROM contains source code and a special demo version of the THRSim11 simulator **Microcontroller Technology, The 68HC11** Peter Spasov,2001-03-01 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

Microcontroller Technology Peter Spasov,1993 This updated edition continues to provide readers with the background needed to understand and use any 8 bit microcontrollers 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 practice using computer simulation or an evaluation board It starts at an introductory level explaining the applications and origins of microcontrollers then develops a programmer s view of the machine and finally covers machine hardware and how to connect it to the outside world An excellent collection of appendices provides easy reference This book is an excellent guide and reference for interested amateurs and experienced users of microcontrollers **Microcontroller Technology, the 68HC11** Peter Spasov,1999 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 AS11 assembler the assembler of choice Five part organizational format covers I Introducing Microcontroller Technology II Software III Hardware IV Interfacing V The Microcontroller World

Microcontroller Technology Peter Spasov,2004 CD ROM contains source code and a special demo version of the THRSim11 simulator *American Book Publishing Record* ,2004 **Instructor's Manual with Transparency Masters for Microcontroller Technology** Peter Spasov,1996 **Subject Guide to Books in Print** ,1991 Design of Embedded

Systems Using 68HC12/11 Microcontrollers Richard E. Haskell,2000 FEATURES BENEFITS A bridge between the 68HC12 and the 68HC11 Focuses on the 68HC12 but includes material for and provides software for the older 68HC11 A new version of Forth WHYP Words to Help You Program designed for use in embedded systems WHYP can easily be installed on any 68HC12 system including the most popular development boards from Motorola and Axiom Manufacturing It consists of two parts some 68HC12 subroutines that reside on the target system typically an evaluation board and a C program that runs on a PC and communicates with the 68HC12 target system through a serial line It is a sub routine threaded language which means that WHYP words are just the names of 68HC12 11 subroutines New WHYP words can be defined simply by stringing previously defined WHYP words together The first five chapters of the text explain how to make the programming of the 68HC12 simple and interactive and in the process develops the entire WHYP language from scratch step by step The software is provided on disk with the text and the latest versions of the software will be available on the authors web site An abundance of worked examples and many chapter end exerc *Introduction to Microcontrollers* G. Jack Lipovski,2004-09-28 Introduction to Microcontrollers is a comprehensive introductory text reference for electrical and computer engineers and students with little experience with a high level programming language It systematically teaches the programming of a microcontroller in assembly language as well as C and C This books also covers the principles of good programming practice through top down design and the use of data structures It is suitable as an introductory text for a first course on microcomputers that demonstrates what a small computer can do Shows how a computer executes instructions Shows how a high level programming language converts to assembler language Shows how a microcontroller is interfaced to the outside world Hundreds of examples experiments brain teasers and motivators More than 20 exercises at the end of each chapter

Microcontroller Technology 68hc11 Im Sup Spasov,2004-06 *The 68HC11 Microcontroller* Joseph D. Greenfield,1992

Microcontroller Theory and Applications Daniel J. Pack,Steven Frank Barrett,2008 For undergraduate students taking a Microcontroller or Microprocessor course frequently found in electrical engineering and computer engineering curricula This text provides the reader with fundamental assembly language programming skills an understanding of the functional hardware components of a microcontroller and skills to interface a variety of external devices with microcontrollers

Microcontroller Technology, the 68HC11: CD-ROM Peter Spasov,2002 **Technician's Guide to the 68HC11**

Microcontroller Dan Black,Leo Chartrand,2001 Technician s Guide to the 68HC11 Microcontroller is ideal for readers with little or no prior programming experience who want to master the basics of troubleshooting and programming Motorola s 68HC11 microcontroller Both hardware and software are covered in detail to provide a complete understanding of the principles underlying how a microcontroller works Theory is supplemented by examples designed to illustrate how concepts may be applied By learning how to program the 68HC11 at an elementary level readers also gain valuable experience using manufacturer specific documentation that prepares them for work with other more sophisticated microcontrollers

Practical Embedded Controllers John Park, 2003-06-12 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.

Embedded Microcontrollers Todd D. Morton, 2001 This practical book on designing real time embedded systems using 8 and 16 bit microcontrollers covers both assembly and C programming and real time kernels. Using a large number of specific examples it focuses on the concepts, processes, conventions and techniques used in design and debugging. Chapter topics include programming basics, simple assembly code construction, CPU12 programming model, basic assembly programming techniques, assembly program design and structure, assembly applications, real time I/O and multitasking, microcontroller I/O resources, modular and C code construction, creating and accessing data in C, real time multitasking in C and using the MICROC OS II preemptive kernel. For anyone who wants to design small to medium sized embedded systems.

68HC12 Microcontroller Daniel J. Pack, Steven Frank Barrett, 2002 CD ROM includes WinIDE Environment and Editor, 68HC12 Assembler, Terminal Emulator program and 68HC12 CPU simulator code examples from the book **MC68HC12 an Introduction** Han-Way Huang, 2003 This comprehensive book from Delmar uses assembly language and the C language to provide readers with a refreshingly straightforward introduction to applications of the Motorola 16 bit microcontroller 68HC12. Using a methodical step by step approach proven to facilitate learning, each of its thirteen chapters introduces a basic concept and proceeds gradually into more detail to guide readers to new programming skills while strengthening their understanding of 68HC12 architecture. The book begins by acquainting readers with 68HC12 CPU registers, addressing modes, Assembler directives plus simple programs for arithmetic and program loops. Subsequent chapters feature detailed examples and tutorials that clearly demonstrate applications of parallel ports, timer functions, analog to digital A/D converters, serial communication interface, controller area network plus on chip and external memory expansion. Extraordinarily readable and easy to learn from MC68HC12 An Introduction Software and Hardware Interfacing with its accompanying CD ROM serves as an excellent introductory book for students enrolled in electrical engineering, electronic engineering technology and computer engineering technology. Clear and concise explanations, a glossary and helpful appendices including ICC12 library functions, SPI compatible chips plus a listing of 68HC12 development tool vendors and more also make this book ideal for any professional who wants to gain an understanding of Motorola 68HC12 hardware, software and interfacing. Benefits Examples showcase the application of subsystems providing an extraordinarily effective and systematic means of mastering even the most sophisticated 68HC12 assembly programming skills. A wealth of exercises, lab exercises and assignments at the

end of each chapter provides hands on learning opportunities and underscores key concepts An entire chapter discusses learning and development tools including demo and eva [Microcontroller Programming for Engineers \(5th Edition\)](#) Harlan Talley,2012-10-30 The first chapters of this book introduce the reader to the concept of a microcontroller and lead him through the basics of C programming and a structured programming process The following chapters teach the reader to program and effectively use the 68HCS12 GPIO ports A D converters timing system PWM generators and interrupt system The final sections describe basic motor control algorithms and describe a distributed control system such as could be used in an efficient home environment control system Each section includes copious examples

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