

MICROCONTROLLER TECHNOLOGY

THE 68HC11 AND 68HC12

F I F T H E D I T I O N



Peter Spasov



Microcontroller Technology The 68hc11 And 68hc12 5th Edition

G Orfield



Microcontroller Technology The 68hc11 And 68hc12 5th Edition:

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 American Book Publishing Record, 2004 Subject Guide to Books in Print, 1991

Instructor's Manual with Transparency Masters for Microcontroller Technology Peter Spasov, 1996

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

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

Microcontroller Technology, the 68HC11: CD-ROM Peter Spasov,2002 *Introduction to Microcontrollers* G. Jack Lipovski,2004-09-10 The perfect choice for your one semester course on Microcontrollers **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 *Introduction to Microcontrollers* G. Jack Lipovski,2004 [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 **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 evaluation

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

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

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

Software and Hardware Engineering Fredrick M. Cady, James M. Sibigtroth, 2000 Ideal for use in microprocessor courses in engineering or computer science Software and Hardware Engineering Motorola M68HC12 provides an in depth hands on introduction to the architecture and design of hardware and software for the Motorola M68HC12 Gives students the tools to use the Motorola M68HC12 in real world applications Covers the hardware features of two versions of the M68HC12 the M68HC812A4 and the M68HC912B32 Compares features common with the Motorola M68HC12's predecessor the M68HC11 Incorporates over 100 extensive programming examples Features chapters on fuzzy logic programming a fuzzy inference engine and the Background Debug Module Includes a detailed appendix covering the design of software for a debugging pod This text can be used with its companion volume Microcontrollers and Microcomputers Principles of Software and Hardware Engineering OUP 1998 or with any other book that examines the

general principles of microcomputer technology It can also stand alone in a course devoted to the M68HC12 A world wide web site provides additional information including source files for all chapter examples <http://www.coe.montana.edu/ee/cady/books/m68hc12.htm>

Microchip Avr(r) Microcontroller Primer Steven F. Barrett, Daniel J. Pack, 2019-09-19 This textbook provides practicing scientists and engineers a primer on the Microchip AVR R microcontroller The revised title of this book reflects the 2016 Microchip Technology acquisition of Atmel Corporation In this third edition we highlight the popular ATmega164 microcontroller and other pin for pin controllers in the family with a complement of flash memory up to 128 KB The third edition also provides an update on Atmel Studio programming with a USB pod the gcc compiler the ImageCraft JumpStart C for AVR compiler the Two Wire Interface TWI and multiple examples at both the subsystem and system level Our approach is to provide readers with the fundamental skills to quickly set up and operate with this internationally popular microcontroller We cover the main subsystems aboard the ATmega164 providing a short theory section followed by a description of the related microcontroller subsystem with accompanying hardware and software to operate the subsystem In all examples we use the C programming language We include a detailed chapter describing how to interface the microcontroller to a wide variety of input and output devices and conclude with several system level examples including a special effects light emitting diode cube autonomous robots a multi function weather station and a motor speed control system

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