

The HCS12 / 9S12: An Introduction to Software and Hardware Interfacing

By Han-Way Huang

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This new book provides a total solution for learning and teaching embedded system design based on the Freescale HCS12/9S12 microcontroller. Readers will learn step-by-step how to program the HCS12 using both assembly and C languages, as well as how to use such development tools as CodeWarrior, ImageCraft ICC12, MiniIDE, GNU C, and EGNU IDE. Supportive examples clearly illustrate all applications of the HCS12 peripheral functions, including parallel port, timer functions, PWM, UART port, SPI, I2C, CAN, on-chip flash and EEPROM programming, external memory expansion, and more. New sections on C programming style, software development methodology, and software reuse have been added in theis revision. A back-of-book CD contains the source code for all examples in the book, several groups of reusable utility functions, and complimentary freeware development tools for improved learning.

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Editorial Review

About the Author
Han-Way Huang is a Professor in the Department of Electrical and Computer Engineering and Technology at Minnesota State University, Mankato. A member of both IEEE and ASEE, he has 25 years of teaching experience in microprocessors and microcontrollers. A well-respected author, he has also written THE HCS12/9S12: AN INTRODUCTION TO HARDWARE AND SOFTWARE (Delmar Learning), EMBEDDED SYSTEM DESIGN WITH M8051 (Cengage Engineering), THE PIC MICROCONTROLLER: AN INTRODUCTION TO SOFTWARE AND INTERFACING (Delmar Learning), THE HC12 MICROCONTROLLER: AN INTRODUCTION (Delmar Learning), and THE HC11 MICROCONTROLLER: AN INTRODUCTION (Delmar Learning). Dr. Huang earned an MS and Ph.D. in Computer Engineering from Iowa State University and the BSEE degree from National Taiwan University.

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