The HCS12 / 9S12: An Introduction To Software And Hardware Interfacing
Synopsis

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 this 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.

Book Information

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Customer Reviews

The only reason I did not give this book five stars is due to the price. It is an expensive book, and it is one which I was required to buy for one of my classes. If you expect to open the book and be able to copy code from it into an IDE, compile, and use it, then this is not the book to get. However, if you want to learn about the underlying hardware of a CPU, and how everything from interrupts to analog to digital conversion is accomplished on the HCS12, I do not think there is a better book. There are examples available within the book, catered to a variety of HCS12 based microcontrollers, however, some of them use definitions which are defined on the author’s included CD, which I did not make
much use of. The content of this book is spectacular, and I can honestly say I have learned a lot about how processors actually function through reading it.

I would recommend this book to anybody new to microcontrollers or the HCS12 family. The book does a great job of covering programming of the HCS12 in assembly and C. There are plenty of examples in the book and included on the CD-ROM to guide you along. Additionally, the book provides a basic guide to the C language and the use of several different compilers. Out of all of the microcontroller books and textbooks I’ve used, I can say with confidence this one is the best.

This book was utterly useless. It’s essentially all the freely available documentation copy and pasted into a hardcover book with a massively inflated price. There’s few to no useful examples, everything is verbatim from the documentation without any additional clarification or insight and it’s not even consistent with itself. There are questions that use terminology and nomenclature that does not appear anywhere else in the book. I’ll never refer to this book again, even if I have to do programming on this chipset again.

Very good book but the price is Expensive. If you want to work with HCS12 Microcontroller by this book or the HSC12 by Mazidi, and if you want good kit to work on by the Dragon12 board is so good the shipping interval was 18 Days.

...so it’s not going to be very exciting. But if you need a solid explanation of how the HCS12 works and how to make it do what you need it to, this is as good a resource as any.

For you who are starting in embedded systems, a good choice.

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