Embedded Systems Design

Steve Heath
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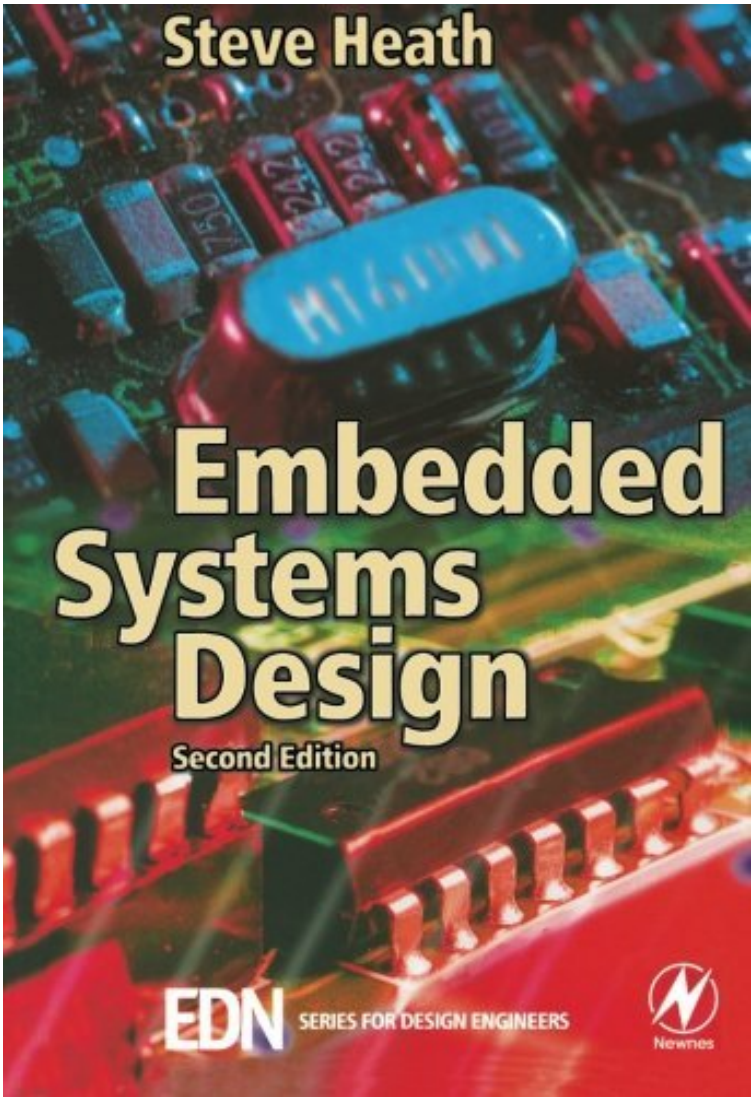

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Steve Heath : Embedded Systems Design before purchasing it in order to gage whether or not it would be worth my time, and all praised Embedded Systems Design:

24 of 28 people found the following review helpful. Set your $50 on fire and save the frustrationBy CustomerI have to say, I was very excited when I bought this book, thinking "this looks like a good book about embedded systems!". Until I opened it. It should have been titled "An Imcomplete Set of Cut and Pastes From White Papers". It's claim that it focuses on "practical" application is a joke. Please don't buy this book with the expectation that after reading it you will have several nifty breadboards that go "whirr" and do neato things. You won't. What you will have is a good excuse to write a scathing review of a book that like too many other technical manuals feels that there is some sort of virtue in paraphrasing technical documents, hitting it with a stapler and sending it off to the publisher with a wink and

a smile, all the while claiming to be the definitive authority on whatever obsure subject they parasite from, causing us to waste time and money on yet another false promise.19 of 23 people found the following review helpful. Good reference materialBy A CustomerSomewhat dry in style, but very thorough. Particularly found the section that compared/contrasted different processor types useful. Like any book technology, some of these sections will become dated. I found information in this book that I could not find anywhere else.2 of 2 people found the following review helpful. Read this book and you'll understand why it's "cheap"By P. CatapanoI tend to agree with those who have written a negative review on this book. I might even absolve its contents - beginners or not experienced designers can still get something out of it. Clarity and didactics seem to have no consistency in that very often terms, concepts, and acronyms are given for granted, whereas other simple ideas are repeated twice within the same page (and more embarassingly with exactly the same words!).But what really irritated me is that this book (or at least this edition) HAS NOT BEEN REVIEWED - or at least, not by anyone with more than very limited understanding skills.Explanations are sometimes made more puzzling by using opposite sentences or words (e.g. "slower" instead of "faster"). Typo's are frequent, and even figures are missing (how can you publish a book where a blank half-page is followed by a figure's title?!?!?!?!).Of course I have not read (and I am not going to read) subsequent editions of this book, but on (partial) excuse, I can suppose that this book's edition was hurriedly sent to press, and then (more) hurriedly withdrawn, given the amount of corrections it needs.But then, what do you do with all that printed paper?You sell it on the internet for a lower price...Well, it would have been better to recycle it, it would have spared some trees and the buyers' money!

In this new edition the latest ARM processors and other hardware developments are fully covered along with new sections on Embedded Linux and the new freeware operating system eCOS. The hot topic of embedded systems and the internet is also introduced. In addition a fascinating new case study explores how embedded systems can be developed and experimented with using nothing more than a standard PC.* A practical introduction to the hottest topic in modern electronics design* Covers hardware, interfacing and programming in one book* New material on Embedded Linux for embedded internet systems

"...a breath of freash air...""...full of useful tips..."C VuFrom the PublisherThis book provides a guide to all aspects of embedded system design including the hardware, the software, and the design trade offs associated with design. However, most hardware these days comes ready packaged as a microcontroller - so the emphasis in the book is on software, which is where the engineer must develop expertise. The approach taken here is largely practical, the aim being to explain how systems are designed in the real world rather than in theory. In keeping with this approach, there is a chapter of case studies included in the book to allow readers to investigate real systems and gain practical experience. Steve Heath has many years of experience in computer design through his work with Motorola and has written several books on Apple, IBM and RISC computers.From the Back CoverSteve Heath's design masterclass covers the practical hardware and software issues, and the design trade-offs of real-world system design.In Embedded Systems Design Steve Heath leads the reader through the design choices involved in system design. The key technologies and applications are introduced in the context of the design process - selection, trade-offs and pitfalls. Detailed consideration is given to processor architectures, memory types, interrupts and their associated software systems, real-time operating systems and software development.In the second edition the latest ARM processors and other hardware developments are fully covered along with new sections on Embedded Linux, performance analysis and benchmarking. In addition, a fascinating new case study explores how embedded systems can be developed and experimented with using nothing more than a standard MS-DOS PC and freeware software.