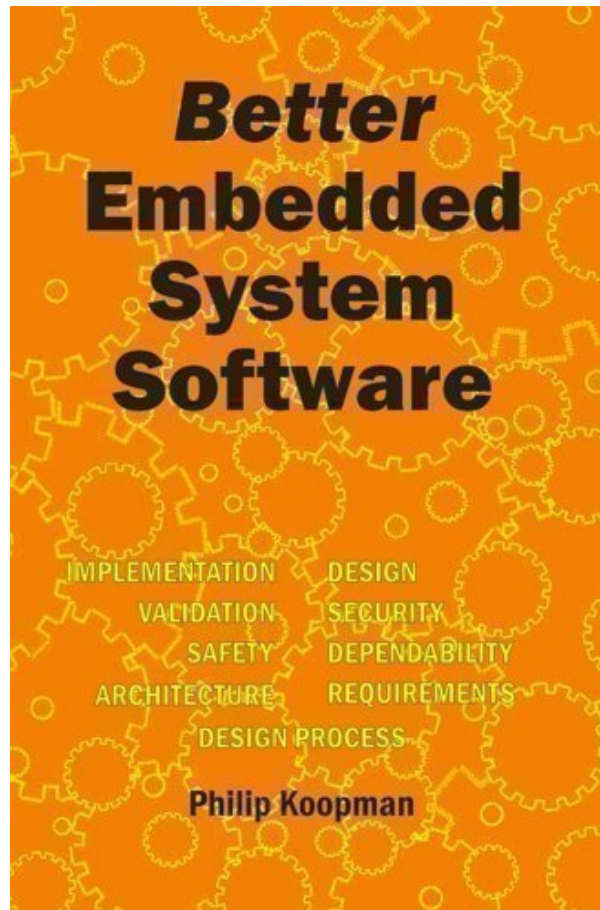
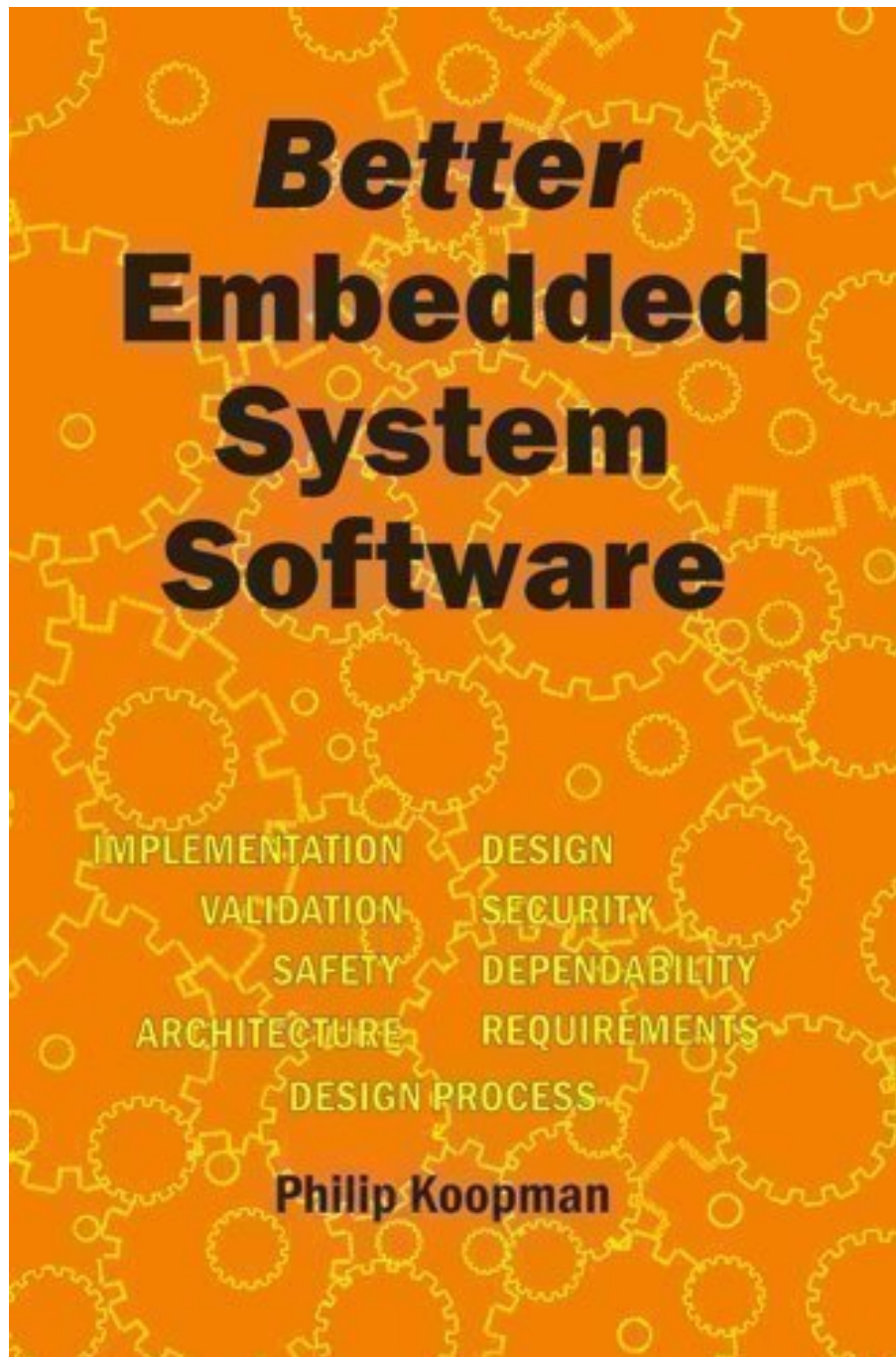


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This book distills the experience of more than 90 design reviews on real embedded systems into a set of bite-size lessons learned in the areas of software development process, requirements, architecture, design, implementation, verification & validation, and critical system properties.

Each chapter describes an area that tends to be a problem in embedded system design, symptoms that tend to indicate you need to make changes, the risks of not fixing problems in this area, and concrete ways to make your embedded system software better. Each of the 29 chapters is self-sufficient, permitting developers with a busy schedule to cherry-pick the best ideas to make their systems better right away.

If you are relatively new to the area but have already learned the basics, this book will be an invaluable asset for taking your game to the next level. If you are experienced, this book provides a way to fill in any gaps. Once you have mastered this material, the book will serve as a source of reminders to make sure you haven't forgotten anything as you plan your next project. The product image of the back of the book lists the chapters.

- Sales Rank: #159542 in Books
- Published on: 2010
- Binding: Hardcover
- 397 pages

Features

- 29 chapters of lessons learned from embedded software design reviews
- Each chapter is self-contained to cherry-pick the areas most useful to you

Most helpful customer reviews

12 of 12 people found the following review helpful.

Only 5 stars because I can't give it more

By Richard Vannorman

I have been programming embedded systems for more than 30 years -- and this is by far the best reference yet on the background issues around embedded development. From the chapters which describe how to write specifications and requirements and test plans, to how to decide how much paper is enough or too much, to how to structure your code -- this book brings all of the bits of the process that I have been doing (and the ones that I haven't!) together in one place and presents them in an organized manner.

The book is accessible and easy to read. It treats topics like real-time scheduling with enough mathematical rigor to nail down how to deal with those issues, and enough common sense that you don't have to wade through the derivations of the math to understand it.

The author says early in the book that it isn't intended to be read as a linear narrative -- that you should pick

and choose what you focus on -- but I was unable to put it down; cover to cover in three days, then back to the beginning again. I immediately ordered copies for all of the members of my development team, and this is required reading for them now.

My only complaint is that I didn't have a copy of it years ago -- the amount of grief it would have spared me is incalculable!

Thanks Phil!

7 of 7 people found the following review helpful.

Great book!

By William C. McClurg

I believe this book rates more than five stars. It is beautifully written in a very readable style. The book is a comprehensive view of the subject. One immediately sees both the depth of the author's experience and intellect. The subjects are addressed and terms defined with such clarity and directness. Yet the application and the limits of the art are there to educate and to comfort. The book is a gift to our world and it should be on every desk.

6 of 6 people found the following review helpful.

An Exquisitely Clear In-The-Trenches Guide To Developing Embedded Software

By Ira Laefsky

Dr. Koopmann possesses both academic knowledge and real world experience in developing well-structured safety-assured systems containing embedded software and hardware. His experience earned in the trenches of over 90 design reviews of embedded computer-based projects is clearly described and exquisitely organized to guide the novice systems designer or experienced professional in correct, safe and efficiently designed software for embedded systems. He employs formal tools such as state charts and real-time scheduling calculations in just the situations and areas where they are most fruitful in successful systems development. With the practiced eye of both an academic and profession embedded systems team leader he advocates just the most useful pieces of documentation and formal technique recognizing that just the right and productive system specification, documentation and testing is necessary to ensure the correct and efficient operation of an embedded systems project; that the right documentation (that he clearly describes) is necessary to ensure a safe reliable product, but that unnecessary is expensive to create and will not be consulted. The top-down and carefully structured organization of this handbook allows gleaning just the heuristics that you as a developer need at a given stage of systems development and to extract valuable hints relevant to the current stage of the project. This organization is given in the form of a hierarchical table of contents on the back cover of this handbook; boxed comments relating the highlights of his extensive experience in each stage of systems development; benefits and explicit pitfalls of each technique and stage of development; both a carefully selected short bibliography related to the given stage and techniques and a list of keywords suitable for search in Google Scholar, Wikipedia, or online developer resources. There is also a book-related web site giving additional hints and recommendations.

The topics covered include: An overview and recommendations on the Software Development Process for Embedded Systems, Requirements and Architecture, Design Heuristics and Specifications, Implementation Guidelines, Verification Validation and Testing, and Critical System Properties. This is the go-to-handbook for any Embedded Systems Development Project and my only (Complementary) Criticism of this excellent Field Guide is that its purchasers be given the option of obtaining the book in machine readable form for incorporation into notes and documentation for developers. This is the book to have whether you are learning the process of Embedded Software Development for the first time in a classroom, or need hints to improve technique developed after many years of field experience.

--Ira Laefsky

MSE/MBA IT & HCI Consultant & Researcher & Former Senior Staff Member Arthur D. Little, Inc. & Digital Equipment Corporation

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