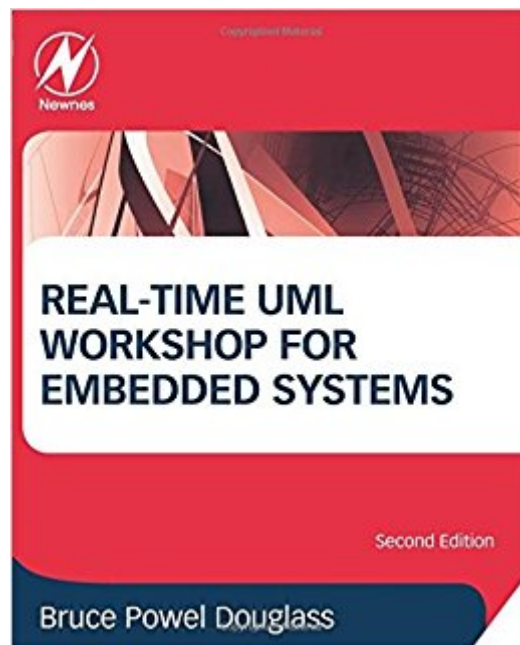




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Real-Time UML Workshop For Embedded Systems, Second Edition (Embedded Technology)



Synopsis

Written as a workbook with a set of guided exercises that teach by example, this book gives a practical, hands-on guide to using UML to design and implement embedded and real-time systems. A review of the basics of UML and the Harmony process for embedded software development: two on-going case examples to teach the concepts, a small-scale traffic light control system and a large scale unmanned air vehicle show the applications of UML to the specification, analysis and design of embedded and real-time systems in general. A building block approach: a series of progressive worked exercises with step-by-step explanations of the complete solution, clearly demonstrating how to convert concepts into actual designs. A walk through of the phases of an incremental spiral process: posing the problems and the solutions for requirements analysis, object analysis, architectural design, mechanistic design, and detailed design.

Book Information

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Customer Reviews

I haven't had this book long, but it seems to provide an overall approach to using UML in several RT systems. Several of the example "systems" are used in the models presented throughout the book. It goes through the examples systems for requirements analysis and modeling. It's a problem/answer style "textbook". It provides a brief introduction to UML in the initial chapter, which might not be enough if you are fairly new to modeling or the use of tools such as Rose, RMS, Rhapsody, or EA.

The book contains a CD that has a demo version of Rhapsody that says it can generate code for an ARM9 target, for which it includes the Keil toolset and target simulator. It's a fairly readable book, even if you don't do all the examples and just look at the answers.

If you design and develop Real-Time and Embedded Systems, this book is absolutely a must, as well as "Real-Time Design Patterns" by the same author. Perhaps the two case studies treated in the book are not the best choice the author could make. Nevertheless, these books are corner-stones for model-driven design

Great book with several examples of using UML. It is of great help if one needs to get some practical, hands on experience, since it provides detailed information related to UML's usage (the book presents two pretty complete examples - Coyote Unmanned Aerial Vehicle and Roadrunner Traffic Light Controller). I'd say it is invaluable to be used with other theoretical books on UML. It presents Harmony (Douglass and Hoffman's Systems and Software Engineering Process) and the accompanying CD has Rhapsody, a good modeling tool, along with all examples used throughout the book. I recommend it for both students and practitioners. Hope this helps!

last year, ibm bought telelogic, then the promotional code brouce gives, it doesn't work. the book is vey good. very

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