



Real Time UML Workshop for Embedded Systems (Embedded Technology)

By Bruce Powel Douglass

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This practical new book provides much-needed, practical, hands-on experience capturing analysis and design in UML. It holds the hands of engineers making the difficult leap from developing in C to the higher-level and more robust Unified Modeling Language, thereby supporting professional development for engineers looking to broaden their skill-sets in order to become more saleable in the job market.

It provides a laboratory environment through a series of progressively more complex exercises that act as building blocks, illustrating the various aspects of UML and its application to real-time and embedded systems. With its focus on gaining proficiency, it goes a significant step beyond basic UML overviews, providing both comprehensive methodology and the best level of supporting exercises available on the market. Each exercise has a matching solution which is thoroughly explained step-by-step in the back of the book. The techniques used to solve these problems come from the author's decades of experience designing and constructing real-time systems. After the exercises have been successfully completed, the book will act as a desk reference for engineers, reminding them of how many of the problems they face in their designs can be solved.

- Tutorial style text with keen focus on in-depth presentation and solution of real-world example problems
- Highly popular, respected and experienced author

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Editorial Review

Review

"As you might expect, there are plenty of UML diagrams. Real-time UML specifications are used throughout, consistent with the purpose of the book. Designers with UML expertise who want to understand how to address real-time applications will find this book useful, as will those in the real-time world who need to understand how to bring UML to bear on the design problem." - William Wong, Electronic Design

About the Author

Embedded Software Methodologist. Triathlete. Systems engineer. Contributor to UML and SysML specifications. Writer. Black Belt. Neuroscientist. Classical guitarist. High school dropout. Bruce Powel Douglass, who has a doctorate in neurocybernetics from the USD Medical School, has over 35 years of experience developing safety-critical real-time applications in a variety of hard real-time environments. He is the author of over 5700 book pages from a number of technical books including Real-Time UML, Real-Time UML Workshop for Embedded Systems, Real-Time Design Patterns, Doing Hard Time, Real-Time Agility, and Design Patterns for Embedded Systems in C. He is the Chief Evangelist at IBM Rational, where he is a thought leader in the systems space and consulting with and mentors IBM customers all over the world. He can be followed on Twitter @BruceDouglass. Papers and presentations are available at his Real-Time UML Yahoo technical group (<http://tech.groups.yahoo.com/group/RT-UML>) and from his IBM thought leader page (www-01.ibm.com/software/rational/leadership/thought/brucedouglass.html).

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