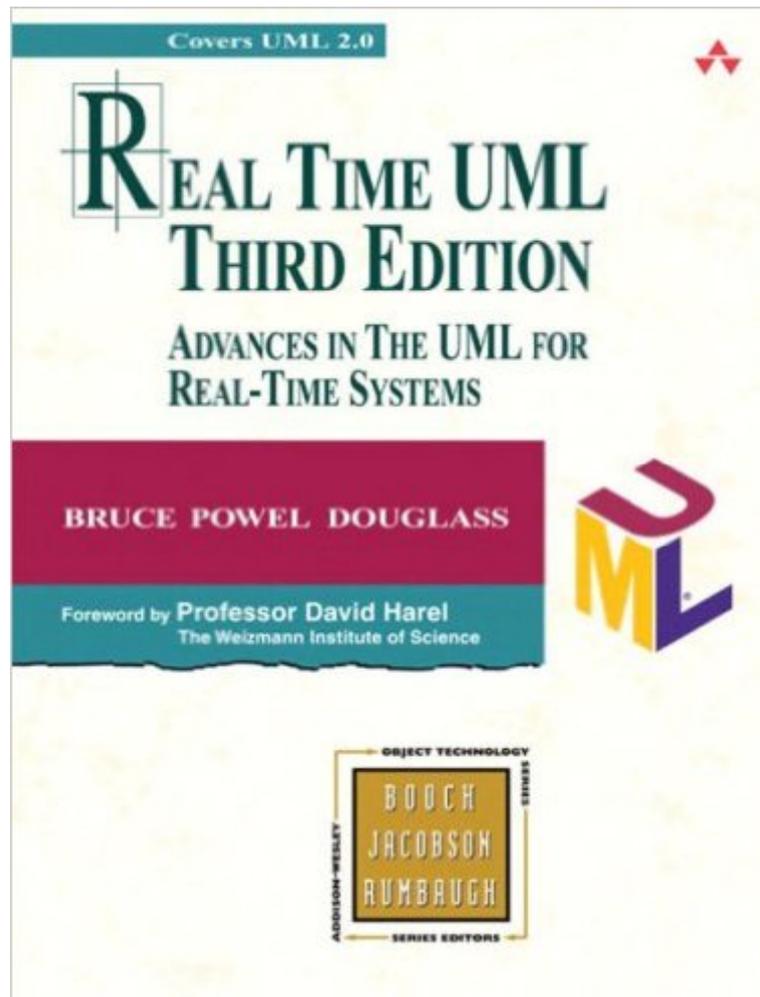The book was found

Real Time UML: Advances In The UML For Real-Time Systems (3rd Edition)

Synopsis

Praise for Real Time UML, Third Edition â œI found Real Time UML, Third Edition, to provide an informative and practical application of UML 2.0 to the development of real-time systems, and well worth the read by systems and software engineers. It is written in plain English and provides the right balance of depth and breadth.â • Â Â Â Â Â Â Â Â Â â ”Sanford Friedenthal,Â Deputy, Corporate Systems Engineering,Â Lockheed Martin Corporation;Â Chair: OMG Systems Engineering,Â Domain Special Interest Group â œDouglass has again made highly technical material accessible to everyone. This book is an excellent introduction to the new UML 2.0, and if you want to learn what modeling for real-time environments is like, this is the book to read. His witty, conversational style should be a model for all authors of technical material.â •Â Â Â Â Â Â Â Â Â â ”Gary K. Evans,Â Founder and Object Evangelist,Â Evanetics, Inc. (www.evanetics.com) â œDouglass has been a co-chair of the OMGâ ™s group interested in quality of service issues and, therefore, has valuable insights into the usefulness of these emerging technologies. His clear presentation of this information helps those applying these advanced technologies to extract the most benefit for their organizations and products, not only for the intended real-time embedded product, but also for products whose quality of performance, while not critical, is nevertheless of interest.â • Â Â Â Â Â Â Â Â Â â ”ThÃ©rÃ¨se M. Smith,Â President and CEO,Â Air Traffic Software Architecture, Inc.Â (USA and Canada) â œThe author presents an excellent overview of UML in the real-time space with plenty of colorful examples. This book is an excellent teaching tool for a newcomer or a reference for an expert!â • Â Â Â Â Â Â Â Â Â â ”Soma Chatterjee,Â Senior Product Manager,Â I-Logix The increasing complexity of embedded and real-time systems requires a more premeditated and sophisticated design approach for successful implementation. The object-based Unified Modeling Language (UML) can describe the structural and behavioral aspects critical to real-time systems and has come to the fore as an outstanding medium for effective design. Like its best-selling predecessors, Real Time UML, Third Edition, provides an overview of the essentials of real-time systems and an introduction to UML that focuses on the use of the ever-evolving standard in design and development. This accessible book examines requirements analysis, the definition of object structure and behavior, architectural and mechanistic design, and more detailed designs that encompass data structure, operations, and exceptions. Numerous figures help illustrate UML design techniques, and detailed, real-world examples show the application of those techniques to embedded systems. This significantly revised edition features the new UML 2.0 standard, which dramatically improves the clarity of the UML for capturing architectures and improving its scalability. Real Time UML, Third Edition, also introduces

the UML Profile for Schedulability, Performance, and Time (STP Profile). The STP Profile provides a standardized way to capture schedulability and performance constraints of systems. This allows analysis tools to read and analyze UML models. Key topic coverage includes: The Rapid Object-Oriented Process for Embedded Systems (ROPES) Concurrency and resource modeling with the Real-Time (SPT) UML Profile Tapping action semantics for greater executability Scenario modeling with timing diagrams Key strategies for object identification Defining object state behavior Representing and identifying threads Mechanistic design patterns Representing Command, Control, Communications, Computers, Intelligence, and Reconnaissance (C4ISR) Architectures with the UML

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Customer Reviews

This book has some good aspects but it shows signs of being thrown together as a collection of papers and is thus a little incoherent .One remarkable think however is that it has the distinction of being the only book I have ever owned that has an index (with page numbers) but pages with no pages numbers. If your are relying on finding something in this book via the index - good luck!

Focus on State diagrams is excellent. Chapter 1 is redundant. Choice of Examples is good but the examples could have been more simpler. Coherency is missing when the same example is discussed in multiple chapters. It would have been better if different examples are used to explain concepts in different chapters. An must buy book for those who use the related tools.

I bought the book because it was required for my class. The book seems to have been rushed through editing as it has some serious omissions and numerous typos. Aside from that, there are areas in the book that are almost completely repetitive from previous sections. I suppose it is better to repeat than to leave it out entirely. Overall the book does a decent job explaining a very complex subject.

Real Time UML: Advances in the UML for Real-Time Systems (3rd Edition) Real-Time Systems and Programming Languages: Ada, Real-Time Java and C/Real-Time POSIX (4th Edition) (International Computer Science Series) Real-Time Systems: Design Principles for Distributed Embedded Applications (Real-Time Systems Series) Hard Real-Time Computing Systems: Predictable Scheduling Algorithms and Applications (Real-Time Systems Series) UML 2.0 in Action: A project-based tutorial: A detailed and practical walk-through showing how to apply UML to real world development projects Advances in Genetic Programming (Complex Adaptive Systems) Advances in Genetic Programming, Vol. 3 (Complex Adaptive Systems) Advances in Genetic Programming, Vol. 2 (Complex Adaptive Systems) Data Quality (Advances in Database Systems) Object-Oriented Software Engineering Using UML, Patterns, and Java (3rd Edition) [Economy Edition] The Object-Oriented Approach: Concepts, Systems Development, and Modeling with UML, Second Edition Systems Analysis and Design with UML 4th (fourth) Edition by Dennis, Alan, Wixom, Barbara Haley, Tegarden, David published by Wiley (2012) Secure Localization and Time Synchronization for Wireless Sensor and Ad Hoc Networks (Advances in Information Security) The Real Book of Real Estate: Real Experts. Real Stories. Real Life UML Distilled: A Brief Guide to the Standard Object Modeling Language (3rd Edition) Applying UML and Patterns: An Introduction to Object-Oriented Analysis and Design and Iterative Development (3rd Edition) Designing Concurrent, Distributed, and Real-Time Applications with UML Systems Analysis and Design: An Object-Oriented Approach with UML Practical UML Statecharts in C/C++: Event-Driven Programming for Embedded Systems Object-Oriented Analysis and Design for Information Systems: Modeling with UML, OCL, and IFML