



Modeling and Analysis of Real-Time and Embedded Systems with UML and MARTE: Developing Cyber-Physical Systems (Paperback)

By Bran Selić, Sébastien Gérard

ELSEVIER SCIENCE TECHNOLOGY, United States, 2014. Paperback. Condition: New. Language: English . Brand New Book. Modeling and Analysis of Real-Time and Embedded Systems with UML and MARTE explains how to apply the complex MARTE standard in practical situations. This approachable reference provides a handy user guide, illustrating with numerous examples how you can use MARTE to design and develop real-time and embedded systems and software. Expert co-authors Bran Selić and Sébastien Gérard lead the team that drafted and maintain the standard and give you the tools you need apply MARTE to overcome the limitations of cyber-physical systems. The functional sophistication required of modern cyber-physical systems has reached a point where traditional code-centric development methods are proving less and less capable of delivering a reliable product in a timely manner. In Modeling and Analysis of Real-Time and Embedded Systems with UML and MARTE, you will learn how to take advantage of modern model-based engineering methods and corresponding industry standards to overcome these limitations. These methods take full advantage of computer-supported automation allowing timely detection of design flaws to reduce engineering risk, leading thereby to better overall product quality and greater productivity.



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