



Abstract State Machines: A Method for High-Level System Design and Analysis

By Egon Boerger

Springer. Hardcover. Condition: New. This item is printed on demand. 448 pages. The systems engineering method proposed in this book, which is based on Abstract State Machines (ASMs), guidesthe development of software and embedded hardware-software systems seamlessly from requirements capture to actual implementation and documentation. The method bridges the gap between the human understanding and formulation of real-world problems and the deployment of their algorithmic solutions by code-executing machines. Within a single conceptual framework it covers design, verification by reasoning techniques, and validation by simulation and testing. ASMs improve current industrial practice by using accurate high-level modeling and by linking the descriptions at the successive stages of system development in an organic and efficiently maintainable chain of rigorous and coherent system models at stepwise-refined abstraction levels. In several industrial projects the ASM method has proven its superiority compared to the popular UML methodology when designing complex parallel or dynamic systems. This book combines the features of a textbook and a handbook: the reader will find detailed explanations, proofs, and exercises as well as numerous examples and real-world case studies. Researchers will find here the most comprehensive description of ASMs available today and professionals will use it as a modeling handbook...



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