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Real-Time Simulation Technologies: Principles, Methodologies, and Applications (Computational Analysis, Synthesis, and Design of Dynamic Systems)

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Real-Time Simulation Technologies: Principles, Methodologies, and Applications is an edited compilation of work that explores fundamental concepts and basic techniques of real-time simulation for complex and diverse systems across a broad spectrum. Useful for both new entrants and experienced experts in the field, this book integrates coverage of detailed theory, acclaimed methodological approaches, entrenched technologies, and high-value applications of real-time simulation—all from the unique perspectives of renowned international contributors.

Because it offers an accurate and otherwise unattainable assessment of how a system will behave over a particular time frame, real-time simulation is increasingly critical to the optimization of dynamic processes and adaptive systems in a variety of enterprises. These range in scope from the maintenance of the national power grid, to space exploration, to the development of virtual reality programs and cyber-physical systems. This book outlines how, for these and other undertakings, engineers must assimilate real-time data with computational tools for rapid decision making under uncertainty.

Clarifying the central concepts behind real-time simulation tools and techniques, this one-of-a-kind resource:

- Discusses the state of the art, important challenges, and high-impact developments in simulation technologies
- Provides a basis for the study of real-time simulation as a fundamental and foundational technology
- Helps readers develop and refine principles that are applicable across a wide variety of application domains

As science moves toward more advanced technologies, unconventional design approaches, and unproven regions of the design space, simulation tools are increasingly critical to successful design and operation of technical systems in a growing number of application domains. This must-have resource presents detailed coverage of real-time simulation for system design, parallel and distributed simulations, industry tools, and a

large set of applications.

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