



Software Tools for Real-Time Simulation and Control

By Sankarayogi, Raghu

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Real-Time Simulation, Hardware-In-the-Loop, Real-Time Linux, Matlab/Simulink/RTAI | The objective of the work described in this book is to design and simulate a multi-agent based energy management system for a shipboard power system in a hard real-time environment. Multi-agent technology is used in designing the reconfigurable energy management system using a self-stabilizing maximum flow algorithm. The agent-based energy management system is designed in a Matlab/Simulink environment. The number of steps taken to reach the global solution and the time taken are very promising. With the growing importance of timing accuracy in simulating control systems during design and development, there is an increased need for these simulations to run in a real-time environment. This research further focuses on software tools that support a hard real-time environment to run real-time simulations. A detailed survey has been conducted on freely available real-time operating systems and other software tools to set up a desktop PC supporting a real-time environment. Matlab/Simulink/RTW-RTAI was selected as real-time computer-aided control design software for demonstrating real-time simulation of an agent-based energy management system. | Format: Paperback | Language/Sprache: english | 144 gr | 220x150x5 mm | 96 pp.



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