



# Simulation of Dynamic Systems with MATLAB and Simulink

*Harold Klee*

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# Simulation of Dynamic Systems with MATLAB and Simulink

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## **Simulation of Dynamic Systems with MATLAB and Simulink** Harold Klee

Simulation is increasingly important for students in a wide variety of fields, from engineering and physical sciences to medicine, biology, economics, and applied mathematics. Current trends point toward interdisciplinary courses in simulation intended for all students regardless of their major, but most textbooks are subject-specific and consequently are not suitable for such a course.

Simulation of Dynamic Systems with MATLAB® and Simulink® offers a unified introduction to continuous simulation that focuses on the common principles underlying the vast array of simulation models that describe very different phenomena. Written by accomplished expert Harold Klee, this text builds an in-depth and intuitive understanding of the basic concepts and mathematical tools that students can easily generalize to their own field of study.

The author includes case studies, real-world examples, abundant homework problems, and thousands of equations to develop a practical understanding of the concepts. Moreover, he incorporates MATLAB® and Simulink® tools to help students gain experience with designing, implementing, and adjusting their simulations. This classroom-tested text works systematically through linear, continuous-time, and discrete-time dynamic systems as well as basic, intermediate, and advanced topics in numerical integration.

Supplying downloadable MATLAB M-files and Simulink model files, Simulation of Dynamic Systems with MATLAB® and Simulink® is ideal for a one- or two-semester course in continuous simulation, offering valuable flexibility for instructors.

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