Simulation of Dynamic Systems with MATLAB and Simulink, Second Edition

Harold Klee, Randal Allen

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"… a seminal text covering the simulation design and analysis of a broad variety of systems using two of the most modern software packages available today. … particularly adept [at] enabling students new to the field to gain a thorough understanding of the basics of continuous simulation in a single semester, and [also provides] a more advanced treatment of the subject for researchers and simulation professionals."

—From the Foreword by Chris Bauer, PhD, PE, CMSP

Continuous-system simulation is an increasingly important tool for optimizing the performance of real-world systems, and a massive transformation has occurred in the application of simulation in fields ranging from engineering and physical sciences to medicine, biology, economics, and applied mathematics. As with most things, simulation is best learned through practice—but explosive growth in the field requires a new learning approach.

A response to changes in the field, **Simulation of Dynamic Systems with MATLAB® and Simulink®, Second Edition** has been extensively updated to help readers build an in-depth and intuitive understanding of basic concepts, mathematical tools, and the common principles of various simulation models for different phenomena.

Includes an abundance of case studies, real-world examples, homework problems, and equations to develop a practical understanding of concepts

Accomplished experts Harold Klee and Randal Allen take readers through a gradual and natural progression of important topics in simulation, introducing advanced concepts only after they construct complete examples using fundamental methods. Presented exercises incorporate MATLAB® and Simulink®—including access to downloadable M-files and model files—enabling both students and professionals to gain experience with these industry-standard tools and more easily design, implement, and adjust simulation models in their particular field of study.

More universities are offering courses—as well as masters and Ph.D programs—in both continuous-time and discrete-time simulation, promoting a new interdisciplinary focus that appeals to undergraduates and beginning graduates from a wide range of fields. Ideal for such courses, this classroom-tested introductory text presents a flexible, multifaceted approach through which simulation can play a prominent role in validating system design and training personnel involved.

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