Simulation of Dynamic Systems

with MATLAB® and Simulink®

SECOND
EDITION

Harold Klee
Randal Allen

Simulation Of Dynamic Systems With Matlab And Simulink Second Edition

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   Simulation of Dynamic Systems with MATLAB and Simulink Harold Klee,Randal Allen,2018   *Simulation of Dynamic Systems with Matlab(r) and Simulink(r)* Harold Klee,Taylor & Francis Group,Randal Allen,2021-12-13 Continuous system simulation is an increasingly important tool for optimizing the performance of real world systems The book presents an integrated treatment of continuous simulation with all the background and essential prerequisites in one setting It features updated chapters and two new sections on Black Swan and the Stochastic Information Packet SIP and Stochastic Library Units with Relationships Preserved SLURP Standard The new edition includes basic concepts mathematical tools and the common principles of various simulation models for different phenomena as well as an abundance of case studies real world examples homework problems and equations to develop a practical understanding of concepts   **Simulation of Dynamic Systems with MATLAB and Simulink, Second Edition** Harold Klee,Randal Allen,2011-02-16 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   Simulation of Dynamic Systems with MATLAB and Simulink Harold

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