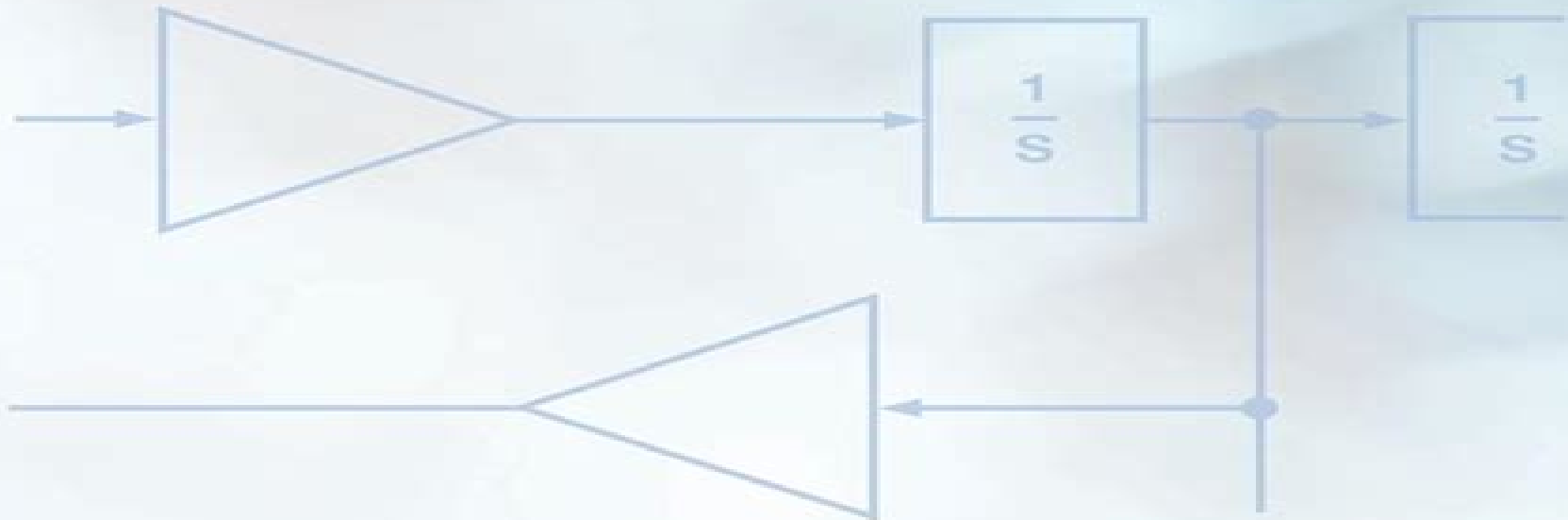


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Modeling, Simulation, and Control

Second Edition



Craig A. Kluever

WILEY

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engineering students how to leverage powerful simulation environments to analyze complex systems Designed for introductory courses in dynamic systems and control this textbook emphasizes practical applications through numerous case studies derived from top level engineering from the AMSE Journal of Dynamic Systems Comprehensive yet concise chapters introduce fundamental concepts while demonstrating physical engineering applications Aligning with current industry practice the text covers essential topics such as analysis design and control of physical engineering systems often composed of interacting mechanical electrical and fluid subsystem components Major topics include mathematical modeling system response analysis and feedback control systems A wide variety of end of chapter problems including conceptual problems MATLAB problems and Engineering Application problems help students understand and perform numerical simulations for integrated systems

Dynamic Systems: Modeling, Simulation, and Control Kluever, 2020-01-02 **Modelling and Control of Dynamic Systems Using Gaussian Process Models** Juš Kocijan, 2015-11-21 This monograph opens up new horizons for engineers and researchers in academia and in industry dealing with or interested in new developments in the field of system identification and control It emphasizes guidelines for working solutions and practical advice for their implementation rather than the theoretical background of Gaussian process GP models The book demonstrates the potential of this recent development in probabilistic machine learning methods and gives the reader an intuitive understanding of the topic The current state of the art is treated along with possible future directions for research Systems control design relies on mathematical models and these may be developed from measurement data This process of system identification when based on GP models can play an integral part of control design in data based control and its description as such is an essential aspect of the text The background of GP regression is introduced first with system identification and incorporation of prior knowledge then leading into full blown control The book is illustrated by extensive use of examples line drawings and graphical presentation of computer simulation results and plant measurements The research results presented are applied in real life case studies drawn from successful applications including a gas liquid separator control urban traffic signal modelling and reconstruction and prediction of atmospheric ozone concentration A MATLAB toolbox for identification and simulation of dynamic GP models is provided for download

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of material for a specific course Students majoring in many different engineering disciplines have used the text Such courses are frequently followed by control system design courses in the various disciplines Efficient Modeling and Control of Large-Scale Systems Javad Mohammadpour,Karolos M. Grigoriadis,2010-06-23 Complexity and dynamic order of controlled engineering systems is constantly increasing Complex large scale systems where large reflects the system s order and not necessarily its physical size appear in many engineering fields such as micro electromechanics manufacturing aerospace civil engineering and power engineering Modeling of these systems often result in very high order models imposing great challenges to the analysis design and control problems Efficient Modeling and Control of Large Scale Systems compiles state of the art contributions on recent analytical and computational methods for addressing model reduction performance analysis and feedback control design for such systems Also addressed at length are new theoretical developments novel computational approaches and illustrative applications to various fields along with An interdisciplinary focus emphasizing methods and approaches that can be commonly applied in various engineering fields Examinations of applications in various fields including micro electromechanical systems MEMS manufacturing processes power networks traffic control Efficient Modeling and Control of Large Scale Systems is an ideal volume for engineers and researchers working in the fields of control and dynamic systems **Neural Networks for Modelling and Control of Dynamic Systems** M. Norgaard,2003

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