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For junior-level courses in System Dynamics, offered in Mechanical Engineering and Aerospace Engineering departments. This text presents students with the basic theory and practice of system dynamics. It introduces the modeling of dynamic systems and response analysis of these systems, with an introduction to the analysis and design of control systems.

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System Dynamics includes the strongest treatment of computational software and system simulation of any available text, with its early introduction of MATLAB and Simulink. The text's extensive coverage also includes discussion of the root locus and frequency response plots, among other methods for assessing system behavior in the time and frequency domains as well as topics such as function discovery, parameter estimation, and system identification techniques, motor performance evaluation, and system dynamics in everyday life.

Engineering system dynamics focuses on deriving mathematical models based on simplified physical representations of actual systems, such as mechanical, electrical, fluid, or thermal, and on solving these models for analysis or design purposes. System Dynamics for Engineering Students: Concepts and Applications features a classical approach to system dynamics and is designed to be utilized as a one-semester system dynamics text for upper-level undergraduate students with emphasis on mechanical, aerospace, or electrical engineering. It is the first system dynamics textbook to include examples from compliant (flexible) mechanisms and micro/nano electromechanical systems (MEMS/NEMS). This new second edition has been updated to provide more balance between analytical and computational approaches; introduces additional in-text coverage of Controls; and includes numerous fully solved examples and exercises. Features a more balanced treatment of mechanical, electrical, fluid, and thermal systems than other texts Introduces examples from compliant (flexible) mechanisms and MEMS/NEMS Includes a chapter on coupled-field systems Incorporates MATLAB® and Simulink® computational software tools throughout the book Supplements the text with extensive instructor support available online: instructor's solution manual, image bank, and PowerPoint lecture slides NEW FOR THE SECOND EDITION Provides more balance between analytical and computational approaches, including integration of Lagrangian equations as another modelling technique of dynamic systems Includes additional in-text coverage of Controls, to meet the needs of schools that cover both controls and system dynamics in the course Features a broader range of applications, including additional applications in pneumatic and hydraulic systems, and new applications in aerospace, automotive, and bioengineering systems, making the book even more appealing to mechanical engineers Updates include new and revised examples and end-of-chapter exercises with a wider variety of engineering applications

The primary goal of Introduction to Finite Element Analysis Using SOLIDWORKS Simulation 2015 is to introduce the aspects of Finite Element Analysis (FEA) that are important to engineers and designers. Theoretical aspects of FEA are also introduced as they are needed to help better understand the operation. The primary emphasis of the text is placed on the practical concepts and procedures needed to use SOLIDWORKS Simulation in performing Linear Static Stress Analysis and basic Modal Analysis. This text covers SOLIDWORKS Simulation and the lessons proceed in a pedagogical fashion to guide you from constructing basic truss elements to generating three-dimensional solid elements from solid models. This text takes a hands-on, exercise-intensive approach to all the important FEA techniques and concepts. This textbook contains a series of fourteen tutorial style lessons designed to introduce beginning FEA users to SOLIDWORKS Simulation. The basic premise of this book is that the more designs you create using SOLIDWORKS Simulation, the better you learn the software. With this in mind, each lesson introduces a new set of commands and concepts, building on previous lessons.

An integrated presentation of both classical and modern methods of systems modeling, response and control. Includes coverage of digital control systems. Details sample data systems and digital control. Provides numerical methods for the solution of differential equations. Gives in-depth information on the modeling of physical systems and central hardware.

Notable author Katsuhiko Ogata presents the only new book available to discuss, in sufficient detail, the details of MATLAB® materials needed to solve many analysis and design problems associated with control systems. Complements a large number of examples with in-depth explanations, encouraging complete understanding of the MATLAB approach to solving problems. Distills the large volume of MATLAB information available to focus on those materials needed to study analysis and design problems of deterministic, continuous-time control systems. Covers conventional control systems such as transient response, root locus, frequency response analyses and designs; analysis and design problems associated with state space formulation of control systems; and useful MATLAB approaches to solve optimization problems. A useful self-study guide for practicing control engineers.