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System Dynamics for Engineering Students: Concepts and Applications discusses the basic concepts of engineering system dynamics. Engineering system dynamics focus on deriving mathematical models based on simplified physical representations of actual systems, such as mechanical, electrical, fluid, or thermal, and on solving the mathematical models. The resulting solution is utilized in design or analysis before producing and testing the actual system. The book discusses the main aspects of a system dynamics course for engineering students: mechanical, electrical, and fluid and thermal system modeling; the Laplace transform technique; and the transfer function approach. It also covers the state space modeling and solution approach; modeling system dynamics in the frequency domain using the sinusoidal (harmonic) transfer function; and coupled-field dynamic systems. The book is designed to be a one-semester system-dynamics text for upper-level undergraduate students with an emphasis on mechanical, aerospace, or electrical engineering. It is also useful for understanding the design and development of micro- and macro-scale structures, electric and fluidic systems with an introduction to transduction, and numerous simulations using MATLAB and SIMULINK. The first textbook to include a chapter on the important area of coupled-field systems Provides a more balanced treatment of mechanical and electrical systems, making it appealing to both engineering specialties

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This book is a guide that shows step by step the process of building simulation models using System Dynamics. It is written in a clear and comprehensible style that illustrates the model construction process. This book will be a useful resource to students, scholars, researchers, and teachers.

The book presents the methodology applicable to the modeling and analysis of a variety of dynamic systems, regardless of their physical origin. It includes detailed modeling of mechanical, electrical, electro-mechanical, thermal, and fluid systems. Models are developed in the form of state-variable equations, input-output differential equations, transfer functions, and block diagrams. The Laplace-transform is used for analytical solutions. Computer solutions are based on MATLAB and Simulink.

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