



Modeling and Analysis of Dynamic Systems

Charles M. Close

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About the Book: Modeling and Analysis of Dynamic Systems: 3rd Edition 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. Contents Introduction. Translational Mechanical Systems. Standard Forms for System Models. Block Diagrams and Computer Simulation. Rotational Mechanical Systems. Electrical Systems. Transform Solutions of Linear Models. Transform Function Analysis. Developing a Linear Model. Electromechanical Systems. thermal Systems. Fluid Systems. Block Diagrams for Dynamic Systems. Modeling, Analysis, and Design Tools. Feedback Design with MATLAB.

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