



System Dynamics

By Seeler, Karl A.

Condition: New. Publisher/Verlag: Springer, Berlin | An Introduction for Mechanical Engineers | This unique textbook takes the student from the initial steps in modeling a dynamic system through development of the mathematical models needed for feedback control. The generously-illustrated, student-friendly text focuses on fundamental theoretical development rather than the application of commercial software. Practical details of machine design are included to motivate the non-mathematically inclined student. | Introduction.- Differential Equations, Input Functions, Complex Exponentials, and Transfer Functions.- Introduction to the Linear Graph Method, Step Responses, and Superposition.- Mechanical Systems.- Fluid, Electrical, and Thermal Systems.- Power Transmission, Transformation and Conversion.- Vector-Matrix Algebra and the State-Space Representation of Dynamic Systems.- Finite Difference Methods and MATLAB.- Transfer Functions, Block Diagrams and the s-plane.- Frequency Response.- AC Circuits and Motors. | Format: Hardback | Language/Sprache: english | 2220 gr | 287x220x43 mm | 667 pp.



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Reviews

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Very helpful to all class of folks. Better then never, though i am quite late in start reading this one. You can expect to like just how the blogger create this pdf.

-- **Mandy Larson**