



System Dynamics: An Introduction for Mechanical Engineers

By Karl A. Seeler

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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.

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Editorial Review

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This book also:

Emphasizes the linear graph method for modeling dynamic systems

Offers a systematic approach for creating an engineering model, extracting information, and formulating mathematical analyses

Adopts a unifying theme of power flow as the dynamic agent that eases analysis of hybrid systems, such as machinery

Presents differential equations as dynamic operators and stresses input/output relationships

Introduces Mathcad and programming in MATLAB

Allows for use of Open Source Computational Software (R or C)

Features over 1000 illustrations

About the Author

Professor Karl Seeler is Professor of Mechanical Engineering at Lafayette College. His research interests mechanical properties of polymer, microcellular polymers, structural stability, machine safety, and systems dynamics. He holds a PhD from MIT.

Users Review

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