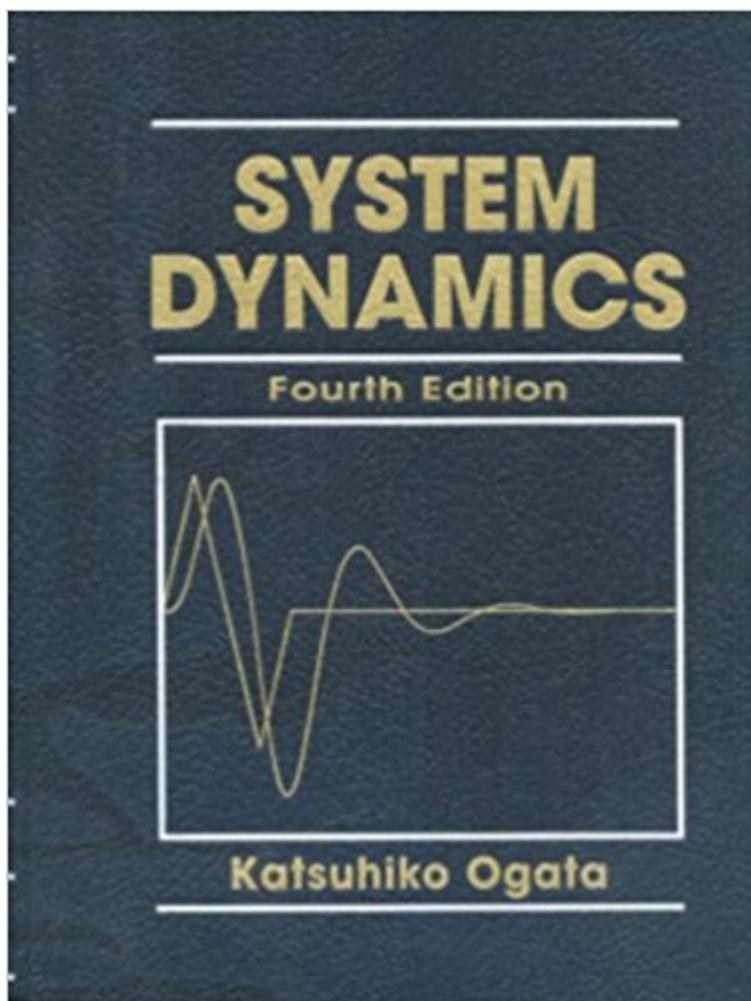


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System Dynamics (4th Edition)



Synopsis

This text presents 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. **KEY TOPICS** Specific chapter topics include The Laplace Transform, mechanical systems, transfer-function approach to modeling dynamic systems, state-space approach to modeling dynamic systems, electrical systems and electro-mechanical systems, fluid systems and thermal systems, time domain analyses of dynamic systems, frequency domain analyses of dynamic systems, time domain analyses of control systems, and frequency domain analyses and design of control systems. For mechanical and aerospace engineers.

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This comprehensive examination of the analysis and design of linear systems provides extensive coverage of both mechanical and electrical systems, and includes analyses of pneumatic systems, hydraulic systems, thermal systems, and water-tank systems. --This text refers to an out of print or unavailable edition of this title.

This text presents 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. Specific chapter topics include The Laplace Transform, mechanical systems, transfer-function approach to modeling dynamic systems, state-space approach to

modeling dynamic systems, electrical systems and electro-mechanical systems, fluid systems and thermal systems, time domain analyses of dynamic systems, frequency domain analyses of dynamic systems, time domain analyses of control systems, and frequency domain analyses and design of control systems. For mechanical and aerospace engineers.

As my professor said, this is a classic book that's been used for a while. It really shows in the sense that it covers everything you really need. It gives a ton of examples, walkthroughs of problems, and even more practice problems to challenge your understanding. It's the go-to book for understanding Dynamic Systems and modeling in my opinion.

Excellent book.

Just what was required.

Best System Dynamics book I have ever encountered. I would recommend it and it is full of great stuff and because it is old some of the wording makes me smile. "An impulsive force whose strength is unity." :)

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Very useful book for spring damper modeling,

good

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