

## Matlab For Control Engineers Katsuhiko Ogata

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Solving control engineering problems with MATLAB, by Katsuhiko Ogata, Edition No: 1, MATLAB Curriculum Series, Prentice Hall Inc., Englewood Cliffs, New Jersey, 1994, - Book review. February 1996.

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Ogata directs this book at control/system engineers. Assuming no prior exposure to Matlab. So it starts off with the basic commands, just like a general Matlab guide. But it quickly moves onto fairly advanced maths topics and equations. Like representing linear systems as matrices within Matlab, and solving the resultant equations.

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Text for a first course in control systems, revised (1st ed. was 1970) to include new subjects such as the pole placement approach to the design of control systems, design of observers, and computer simulation of control systems. For senior engineering students. Annotation copyright Book News, Inc.

Written as a companion volume to the author's Solving Control Engineering Problems with MATLAB, this indispensable guide illustrates the power of MATLAB as a tool for synthesizing control systems, emphasizing pole placement, and optimal systems design.

A comprehensive treatment of the analysis and design of discrete-time control systems which provides a gradual development of the theory by emphasizing basic concepts and avoiding highly mathematical arguments. The text features comprehensive treatment of pole placement, state observer design, and quadratic optimal control.

For junior-level courses in System Dynamics, offered in Mechanical Engineering and Aerospace Engineering departments. This text presents students with 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.

For senior/graduate-level first courses in Control Theory in departments of Mechanical, Electrical, Aerospace, and Chemical Engineering. This comprehensive treatment of the analysis and design of continuous-time control systems provides a gradual development of control theory--and shows how to solve all computational problems with MATLAB. It avoids highly mathematical arguments, and features an abundance of examples and worked problems throughout the text.

The book blends readability and accessibility common to undergraduate control systems texts with the mathematical rigor necessary to form a solid theoretical foundation. Appendices cover linear algebra and provide a Matlab overview and files. The reviewers pointed out that this is an ambitious project but one that will pay off because of the lack of good up-to-date textbooks in the area.

## Access Free Matlab For Control Engineers Katsuhiko Ogata

This package includes a physical copy of Modern Control Engineering (International Version) by Katsuhiko Ogata, as well as access to MATLAB. For senior or graduate-level students taking a first course in Control Theory (in departments of Mechanical, Electrical, Aerospace, and Chemical Engineering). A comprehensive, senior-level textbook for control engineering. Ogata's Modern Control Engineering, 5/e, offers the comprehensive coverage of continuous-time control systems that all senior students must have, including frequency response approach, root-locus approach, and state-space approach to analysis and design of control systems. The text provides a gradual development of control theory, shows how to solve all computational problems with MATLAB, and avoids highly mathematical arguments. A wealth of examples and worked problems are featured throughout the text. The new edition includes improved coverage of Root-Locus Analysis (Chapter 6) and Frequency-Response Analysis (Chapter 8). The author has also updated and revised many of the worked examples and end-of-chapter problems. This text is ideal for control systems engineers.

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