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Modern Control Engineering (5th Edition)

Synopsis

For senior or graduate-level students taking a first course in Control Theory (in departments of Mechanical, Electrical, Aerospace, and Chemical Engineering). Â   A comprehensive, senior-level textbook for control engineering. Â Ogataâ ™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. Â 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.

Book Information

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Customer Reviews

Ogata'sModern Control Engineering, 5/eoffers comprehensive coverage of control engineering, 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.Laplace transform; mathematical modeling of mechanical systems, electrical systems, fluid systems, and thermal

systems; transient and steady-state-response analyses, root-locus analysis and control systems design by the root-locus method; frequency-response analysis and control systems design by the frequency-response; two-degrees-of-freedom control; state space analysis of control systems and design of control systems in state space. he 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.MARKET: For control systems engineers.

Dr. Katsuhiko Ogata graduated from the University of Tokyo (BS), earned an MS degree from the University of Illinois, and his Ph.D from the University of California, Berkeley. He is Professor Emeritus at the University of Minnesota.

Provides problems that aid in learning material. Written material sometimes not in depth enough but otherwise adequate. I would suggest using MATLAB examples on your own in order to gain a boost in learning material.

It is a good book, it covers most on linear theory in a clear way, but with a lack of organization of content.

This book holds its own among other continous controls books. Problem sets and examples are very helpful to discover the more difficult problems of contol engineering.

great book

Great book but lacks application problems. I am told this book is more for an indepth analysis of topics already learned from other coureses with the addition of Observers,state observer feedback, Intro to the use of Kalman filters, state variable feedback, and optimization. The optimization section could be better but if you have a great teacher its a good reference. I had used this book as an undergrad and told its a reference for grad students.

excellent

I needed this for class. It was good for the class but it can definitely put you to sleep.

This is a very easy to read textbook that gives a great introduction to classical and modern control theory. The text covers PID and Lead-Lag in both root-locus and bode plot design, nyquist plots, stability, state-space, optimal and LQR control, as well as some robust control. Good beginner textbook for controls

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