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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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Matlab: An Introduction presents the only new book available to discuss, in sufficient detail, the details of MATLAB® materials needed to solve many analysis and design problems associated with control systems. Complements a large number of examples with in-depth explanations, encouraging complete understanding of the MATLAB approach to solving problems. Distills the large volume of MATLAB information available to focus on those materials needed to study analysis and design problems of deterministic, continuous-time control systems. Covers conventional control systems such as transient response, root locus, frequency response analyses and designs; analysis and design problems associated with state space formulation of control systems; and

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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

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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.

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

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For senior/graduate-level first courses in Control Theory in departments of Mechanical, Electrical, Aerospace, and Chemical Engineering. This

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This package consists of the textbook plus MATLAB & Simulink Student Version 2010a 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,

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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.

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