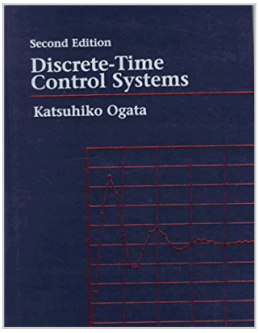

Discrete-Time Control Systems (2nd Edition)

By Katsuhiko Ogata

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The new edition of this comprehensive digital controls book integrates MATLAB throughout the book. The book has also increased inflexibility and reader friendliness through the streamlining of coverage in Chapters 6 & 7 (controllability, pole placement and observability, and optimal control). The previous edition ISBN is: 0-13-216102-8.

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Editorial Review

From the Publisher

In-depth discussions of selected topics (such as Z transform, and pole placement when the control signal was a vector quantity) have been moved to optional Appendices. discusses in detail the theoretical background for designing control systems. offers a greatly expanded treatment of the pole placement design with minimum-order observer by means of state space approach (Ch. 6) and polynomial equations approach (Ch. 7). features a new chapter on the polynomial equations approach to the control systems design — as an alternative to the design of control systems via pole placement with minimum-order observers. Includes the design of model matching control systems. emphasizes the usefulness of MATLAB for studying discrete-time control systems — showing how to use MATLAB optimally to obtain numerical solutions that involve various types of vector-matrix operations, plotting response curves, and system design based on quadratic optimal control. presents many instructive examples and worked-out problems throughout the entire book.

From the Back Cover

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 book features comprehensive treatment of pole placement, state observer design, and quadratic optimal control.

FEATURES:

- In-depth discussions of selected topics (such as Z transform, and pole placement when the control signal was a vector quantity) have been moved to **optional Appendices.**
- discusses in detail the **theoretical background** for designing control systems.
- offers a **greatly expanded treatment of the pole placement design with minimum-order observer** by means of state space approach (Ch. 6) and polynomial equations approach (Ch. 7).
- features a new chapter on the **polynomial equations approach** to the control systems design — as an alternative to the design of control systems via pole placement with minimum-order observers. Includes the design of **model matching control systems.**
- emphasizes the usefulness of **MATLAB** for studying discrete-time control systems — showing how to use MATLAB optimally to obtain numerical solutions that involve various types of vector-matrix operations, plotting response curves, and system design based on quadratic optimal control.
- presents many instructive **examples and worked-out problems** throughout the entire book.

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