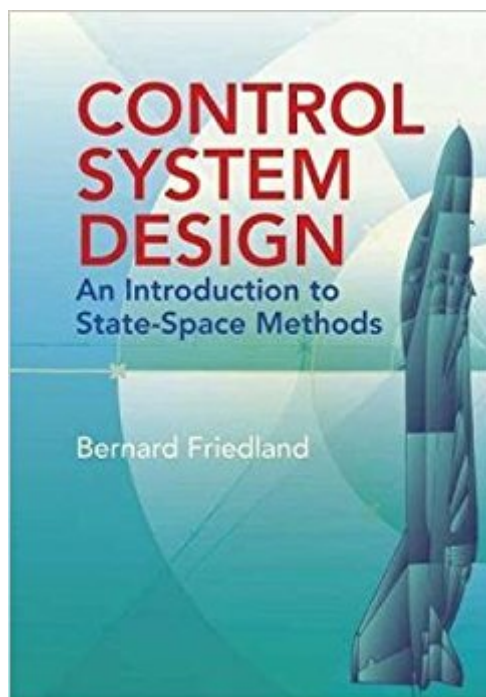




Ebook Directory
the best source of ebook

The book was found

Control System Design: An Introduction To State-Space Methods (Dover Books On Electrical Engineering)



Synopsis

Addressed not only to students but also to professional engineers and scientists, this volume introduces state-space methods for direct applications to control system design, in addition to providing background for reading the periodical literature. Its presentation, therefore, is suitable both for those who require methods for achieving results and those more interested in using results than in proving them. Topics include feedback control; state-space representation of dynamic systems and dynamics of linear systems; frequency-domain analysis; controllability and observability; and shaping the dynamic response. Additional subjects encompass linear observers; compensator design by the separation principle; linear, quadratic optimum control; random processes; and Kalman filters. Concrete examples of how state-space methods can be used to advantage in several representative applications are woven into the fabric of the text and the homework problems. Many of the models are drawn from aerospace and inertial instrumentation; other examples are derived from chemical process control, maritime operations, robotics, and energy systems.

Book Information

Series: Dover Books on Electrical Engineering

Paperback: 528 pages

Publisher: Dover Publications (March 24, 2005)

Language: English

ISBN-10: 0486442780

ISBN-13: 978-0486442785

Product Dimensions: 1 x 6.5 x 9 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

Average Customer Review: 4.2 out of 5 stars 26 customer reviews

Best Sellers Rank: #73,791 in Books (See Top 100 in Books) #9 in [Books > Engineering & Transportation > Engineering > Design](#) #127 in [Books > Textbooks > Engineering > Mechanical Engineering](#) #291 in [Books > Engineering & Transportation > Engineering > Electrical & Electronics](#)

Customer Reviews

Better have a background in SSM before attempting to decipher this book. Not an intuitive approach to control system theory versus classical methods. Get the book from Nise or Bishop to get acquainted with state-space before tackling this one.

Helpful reference for State Space modeling with interesting time invariant examples. I used this book to prep for a linear system theory/ modern control graduate course.

A well written and detailed book on state-space methods, with tons of applications on engineering. Unfortunately, it does not provide treatments for discrete time state-space method.

Great book. Simple to understand with a lot of example

Book is outstanding but equations in the e-version is all messed up - makes reading difficult. Publishers need to look into this.

Beautiful proportion of explanation and formulae - I also learnt easily , compared to other books on this subject, I recommend it for people like myself

I'm a professor who has taught out of this text twice for a graduate-level course on state space and modern control. This text is a joy to use - well written, clearly explained examples, and well thought out organization. I highly recommend it!

Very good

[Download to continue reading...](#)

Control System Design: An Introduction to State-Space Methods (Dover Books on Electrical Engineering) The Floridas: The Sunshine State * The Alligator State * The Everglade State * The Orange State * The Flower State * The Peninsula State * The Gulf State Fundamentals of Electrical Engineering (The Oxford Series in Electrical and Computer Engineering) Probabilistic Methods of Signal and System Analysis (The Oxford Series in Electrical and Computer Engineering) Design of Feedback Control Systems (Oxford Series in Electrical and Computer Engineering) Electrical Power Transmission System Engineering: Analysis and Design, Third Edition Linear System Theory and Design (The Oxford Series in Electrical and Computer Engineering) Electrical Engineering Reference Manual for the Electrical and Computer PE Exam, Sixth Edition Introduction to Space Dynamics (Dover Books on Aeronautical Engineering) Basic Electricity (Dover Books on Electrical Engineering) Introduction to Aircraft Flight Mechanics: Performance, Static Stability, Dynamic Stability, Classical Feedback Control, and State-Space Foundations (AIAA Education) Electrical Control of Fluid Power: Electric and Electronic Control of Hydraulic & Air Systems The Engineering

Design of Systems: Models and Methods (Wiley Series in Systems Engineering and Management)
Analog Methods for Computer-Aided Circuit Analysis and Diagnosis (Electrical and Computer Engineering)
System Engineering Analysis, Design, and Development: Concepts, Principles, and Practices (Wiley Series in Systems Engineering and Management)
Hilbert Space Methods in Partial Differential Equations (Dover Books on Mathematics)
Graphic Design Success: Over 100 Tips for Beginners in Graphic Design: Graphic Design Basics for Beginners, Save Time and Jump Start Your Success (graphic ... graphic design beginner, design skills)
Elements of Power System Analysis (Mcgraw Hill Series in Electrical and Computer Engineering)
Linear System Theory (Springer Texts in Electrical Engineering)
Card Control: Practical Methods and Forty Original Card Experiments (Dover Magic Books)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)