

The book was found

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). 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.

Book Information

Hardcover: 912 pages

Publisher: Pearson; 5 edition (September 4, 2009)

Language: English

ISBN-10: 0136156738

ISBN-13: 978-0136156734

Product Dimensions: 8.3 x 1.4 x 9.4 inches

Shipping Weight: 4 pounds (View shipping rates and policies)

Average Customer Review: 3.6 out of 5 stars 47 customer reviews

Best Sellers Rank: #105,703 in Books (See Top 100 in Books) #93 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Robotics & Automation #429 in Books > Engineering & Transportation > Engineering > Electrical & Electronics #451 in Books > Engineering & Transportation > Engineering > Mechanical

Customer Reviews

Ogata's Modern Control Engineering, 5/e offers 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. 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. 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 continuous controls books. Problem sets and examples are very helpful to discover the more difficult problems of control 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 courses 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

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

Modern Control Engineering (5th Edition) NLP: Neuro Linguistic Programming: Re-program your control over emotions and behavior, Mind Control - 3rd Edition (Hypnosis, Meditation, Zen, Self-Hypnosis, Mind Control, CBT) NLP: Persuasive Language Hacks: Instant Social Influence With Subliminal Thought Control and Neuro Linguistic Programming (NLP, Mind Control, Social Influence, ... Thought Control, Hypnosis, Communication) Nonlinear Control Systems (Communications and Control Engineering) Dynamics of Structures (5th Edition) (Prentice-Hall International Series I Civil Engineering and Engineering Mechanics) Elements of Chemical Reaction Engineering (5th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Systems Engineering and Analysis (5th Edition) (Prentice Hall International Series in Industrial & Systems Engineering) G.Dieter's Li.Schmidt's Engineering 4th (Fourth) edition(Engineering Design (Engineering Series) [Hardcover])(2008) Freezing Colloids: Observations, Principles, Control, and Use: Applications in Materials Science, Life Science, Earth Science, Food Science, and Engineering (Engineering Materials and Processes) Fracture and Fatigue Control in Structures: Applications of Fracture Mechanics (Prentice-Hall International Series in Civil Engineering and Engineering Mechanics) Modern Essentials Bundle 6th - Modern Essentials 6th Edition a Contemporary Guide to the Therapeutic Use of Essential Oils, An Introduction to Modern Essentials, and Modern Essentials Reference Card Modern Control Engineering (4th Edition) Gravity Sanitary Sewer Design and Construction (ASCE Manuals and Reports on Engineering Practice No. 60) (Asce Manuals and Reports on Engineering ... Manual and Reports on Engineering Practice) Earthquake Engineering: From Engineering Seismology to Performance-Based Engineering Introduction to Coastal Engineering and Management (Advanced Series on Ocean Engineering) (Advanced Series on Ocean Engineering (Paperback)) Tissue Engineering II: Basics of Tissue Engineering and Tissue Applications (Advances in Biochemical Engineering/Biotechnology) Tissue Engineering I: Scaffold Systems for Tissue Engineering (Advances in Biochemical Engineering/Biotechnology) (v. 1) Engineering Fundamentals: An Introduction to Engineering (Activate Learning with these NEW titles from Engineering!) Biomedical Engineering Principles Of The Bionic Man (Series on Bioengineering & Biomedical Engineering)

(Bioengineering & Biomedical Engineering (Paperback)) Modern Ceramic Engineering: Properties, Processing, and Use in Design, 3rd Edition (Materials Engineering)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)