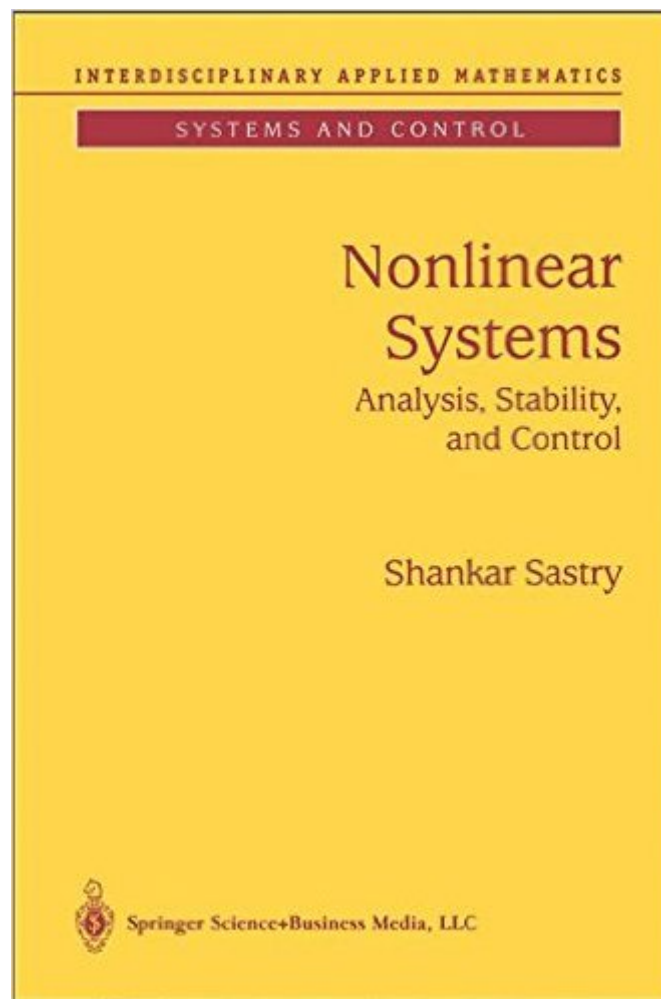


The book was found

Nonlinear Systems: Analysis, Stability, And Control (Interdisciplinary Applied Mathematics)



Synopsis

There has been much excitement over the emergence of new mathematical techniques for the analysis and control of nonlinear systems. In addition, great technological advances have bolstered the impact of analytic advances and produced many new problems and applications which are nonlinear in an essential way. This book lays out in a concise mathematical framework the tools and methods of analysis which underlie this diversity of applications.

Book Information

Series: Interdisciplinary Applied Mathematics (Book 10)

Hardcover: 668 pages

Publisher: Springer; 1999 edition (June 22, 1999)

Language: English

ISBN-10: 0387985131

ISBN-13: 978-0387985138

Product Dimensions: 6.1 x 1.6 x 9.2 inches

Shipping Weight: 2.3 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars [See all reviews](#) (2 customer reviews)

Best Sellers Rank: #344,778 in Books (See Top 100 in Books) #17 in [Books > Computers & Technology > Hardware & DIY > Microprocessors & System Design > Control Systems](#) #168 in [Books > Computers & Technology > Computer Science > Systems Analysis & Design](#) #239 in [Books > Science & Math > Mathematics > Mathematical Analysis](#)

Customer Reviews

As a Ph.D student I found this book very helpful and I would like to recommend this book everyone involved in nonlinear systems. I also have Vidyasagar's (i wish there were more example problems) and Khalil's nonlinear systems (mainly devoted to Lyapunov analysis) books which are also good but I found this book much explanatory than others.

This is a good book devoted to nonlinear systems. Compared to Vidyasagar's book, this book has more mathematical rigour, therefore, to follow it you should have a good Calculus/Linear Algebra /Analysis background (I recommend to have good books of these subjects while reading Sastry). Some topics are more intuitively than explicitly covered. The same thing occurs in the exercises at the end of the chapters. Because of this I think that you should not follow only this book in a first course on nonlinear systems. I recommend Khalil's and Isidori's book as parallel readings.

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

Nonlinear Systems: Analysis, Stability, and Control (Interdisciplinary Applied Mathematics)
Nonlinear Power Flow Control Design: Utilizing Exergy, Entropy, Static and Dynamic Stability, and Lyapunov Analysis (Understanding Complex Systems) The Global Nonlinear Stability of the Minkowski Space (PMS-41) (Princeton Legacy Library) Global Propagation of Regular Nonlinear Hyperbolic Waves (Progress in Nonlinear Differential Equations and Their Applications, No. 76) An Introduction to Partial Differential Equations with MATLAB (Chapman & Hall/CRC Applied Mathematics & Nonlinear Science) Computational Partial Differential Equations Using MATLAB (Chapman & Hall/CRC Applied Mathematics & Nonlinear Science) Foundations of Educational Technology: Integrative Approaches and Interdisciplinary Perspectives (Interdisciplinary Approaches to Educational Technology) Mathematical Biology II: Spatial Models and Biomedical Applications (Interdisciplinary Applied Mathematics) (v. 2) Mathematical Biology: I. An Introduction (Interdisciplinary Applied Mathematics) (Pt. 1) Mathematical Physiology (Interdisciplinary Applied Mathematics) Computational Inelasticity (Interdisciplinary Applied Mathematics) (v. 7) Identification of Nonlinear Systems Using Neural Networks and Polynomial Models: A Block-Oriented Approach (Lecture Notes in Control and Information Sciences) Mathematical Control Theory: Deterministic Finite Dimensional Systems (Texts in Applied Mathematics) Stability of Structures by Finite Element Methods, Volume 40 (Studies in Applied Mechanics) Lyapunov Matrix Equation in System Stability and Control (Dover Civil and Mechanical Engineering) Vehicle Dynamics, Stability, and Control, Second Edition (Mechanical Engineering) Flight Stability and Automatic Control Stability Estimates for Hybrid Coupled Domain Decomposition Methods (Lecture Notes in Mathematics) Contact Geometry and Nonlinear Differential Equations (Encyclopedia of Mathematics and its Applications) Seismic Design Aids for Nonlinear Pushover Analysis of Reinforced Concrete and Steel Bridges (Advances in Earthquake Engineering)

[Dmca](#)