

Mathematical background
Real-time processing
Discrete-time systems
Discrete-time Fourier transform
Discrete-time Fourier series
Discrete-time Fourier transform
Discrete-time Fourier series
Discrete-time Fourier transform
Discrete-time Fourier series

Numerical Linear Algebra in Signals, Systems and Control

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Numerical Linear Algebra Techniques For Systems And Control

Panos J. Antsaklis, Anthony N. Michel



Numerical Linear Algebra Techniques For Systems And Control:

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Mathematical Systems Theory I Diederich Hinrichsen,Anthony J. Pritchard,2011-08-03 This book presents the mathematical foundations of systems theory in a self contained comprehensive detailed and mathematically rigorous way It is devoted to the analysis of dynamical systems and combines features of a detailed introductory textbook with that of a reference source The book contains many examples and figures illustrating the text which help to bring out the intuitive ideas behind the mathematical constructions *Linear Systems* Panos J. Antsaklis,Anthony N. Michel,2006-11-24 There are three words that characterize this work thoroughness completeness and clarity The authors are congratulated for taking the time to write an excellent linear systems textbook IEEE Transactions on Automatic Control Linear systems theory plays a broad and fundamental role in electrical mechanical chemical and aerospace engineering communications and signal processing A thorough introduction to systems theory with emphasis on control is presented in this self contained textbook written for a challenging one semester graduate course A solutions manual is available to instructors upon adoption of the text The book s flexible coverage and self contained presentation also make it an excellent reference guide or self study manual For a treatment of linear systems that focuses primarily on the time invariant case using streamlined presentation of the material with less formal and more intuitive proofs please see the authors companion book entitled A Linear Systems Primer

Subspace Methods for System Identification Tohru Katayama,2005-10-11 An in depth introduction to subspace methods for system identification in discrete time linear systems thoroughly augmented with advanced and novel results this text is structured into three parts Part I deals with the mathematical preliminaries numerical linear algebra system theory stochastic processes and Kalman filtering Part II explains realization theory as applied to subspace identification Stochastic realization results based on spectral factorization and Riccati equations and on canonical correlation analysis for stationary processes are included Part III demonstrates the closed loop application of subspace identification methods Subspace Methods for System Identification is an excellent reference for researchers and a useful text for tutors and graduate students involved in control and signal processing courses It can be used for self study and will be of interest to applied scientists or engineers wishing to use advanced methods in modeling and identification of complex systems

Multivariable Computer-controlled Systems Efim N. Rosenwasser,Bernhard P. Lampe,2006-09-07 In this book the authors

extend the parametric transfer function methods which incorporate time dependence to the idea of the parametric transfer matrix in a complete exposition of analysis and design methods for multiple input multiple output MIMO sampled data systems Appendices covering basic mathematical formulae two MATLAB toolboxes round out this self contained guide to multivariable control systems The book will interest researchers in automatic control and to development engineers working with advanced control technology **Approximation of Large-Scale Dynamical Systems** Athanasios C.

Antoulas,2009-06-25 Mathematical models are used to simulate and sometimes control the behavior of physical and artificial processes such as the weather and very large scale integration VLSI circuits The increasing need for accuracy has led to the development of highly complex models However in the presence of limited computational accuracy and storage capabilities model reduction system approximation is often necessary Approximation of Large Scale Dynamical Systems provides a comprehensive picture of model reduction combining system theory with numerical linear algebra and computational considerations It addresses the issue of model reduction and the resulting trade offs between accuracy and complexity Special attention is given to numerical aspects simulation questions and practical applications

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