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Numerical Methods For Linear Control Systems

Claude Brezinski



Numerical Methods For Linear Control Systems:

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Numerical Linear Algebra Techniques for Systems and Control IEEE Control Systems Society, 1994 A reprint collection of practical papers covering the broad scope of numerical linear algebra in computer aided control system design software Between the 35 page introduction and extensive 21 page bibliography are seven sections general numerical issues in control controllability observability and realizations closeness problems frequency response transfer functions poles and zeros pole assignment and observer design Riccati Lyapunov and Sylvester equations and some relevant results from numerical linear algebra Annotation copyright by Book News Inc Portland OR

Computational Aspects of Linear Control Claude Brezinski, 2013-12-01 Many devices we say dynamical systems or simply systems behave like black boxes they receive an input this input is transformed following some laws usually a differential equation and an output is observed The problem is to regulate the input in order to control the output that is for obtaining a desired output Such a mechanism where the input is modified according to the output measured is called feedback The study and design of such automatic processes is called control theory As we will see the term system embraces any device and control theory has a wide variety of applications in the real world Control theory is an interdisciplinary domain at the junction of differential and difference equations system theory and statistics Moreover the solution of a control problem involves many topics of numerical analysis and leads to many interesting computational problems linear algebra QR SVD projections Schur complement structured matrices localization of eigenvalues computation of the rank Jordan normal form Sylvester and other equations systems of linear equations regularization etc root localization for polynomials inversion of the Laplace transform computation of the matrix exponential approximation theory orthogonal poly

nomials Padé approximation continued fractions and linear fractional transformations optimization least squares dynamic programming etc So control theory is also a good excuse for presenting various sometimes unrelated issues of numerical analysis and the procedures for their solution This book is not a book on control

Piecewise Linear Control Systems Mikael K.-J. Johansson, 2003-07-01

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An Introduction to Linear Control Systems Thomas E. Fortmann, Konrad L. Hitz, 1977-10-01

Computational Methods for Approximation of Large-Scale Dynamical Systems Mohammad Monir Uddin, 2019-04-30

These days computer based simulation is considered the quintessential approach to exploring new ideas in the different disciplines of science engineering and technology SET To perform simulations a physical system needs to be modeled using mathematics these models are often represented by linear time invariant LTI continuous time CT systems Oftentimes these systems are subject to additional algebraic constraints leading to first or second order differential algebraic equations DAEs otherwise known as descriptor systems Such large scale systems generally lead to massive memory requirements and enormous computational complexity thus restricting frequent simulations which are required by many applications To resolve these complexities the higher dimensional system may be approximated by a substantially lower dimensional one through model order reduction MOR techniques Computational Methods for Approximation of Large Scale Dynamical Systems discusses computational techniques for the MOR of large scale sparse LTI CT systems Although the book puts emphasis on the MOR of descriptor systems it begins by showing and comparing the various MOR techniques for standard systems The book also discusses the low rank alternating direction implicit LR ADI iteration and the issues related to solving the Lyapunov equation of large scale sparse LTI systems to compute the low rank Gramian factors which are important components for implementing the Gramian based MOR Although

this book is primarily aimed at post graduate students and researchers of the various SET disciplines the basic contents of this book can be supplemental to the advanced bachelor s level students as well It can also serve as an invaluable reference to researchers working in academics and industries alike Features Provides an up to date step by step guide for its readers Each chapter develops theories and provides necessary algorithms worked examples numerical experiments and related exercises With the combination of this book and its supplementary materials the reader gains a sound understanding of the topic The MATLAB codes for some selected algorithms are provided in the book The solutions to the exercise problems experiment data sets and a digital copy of the software are provided on the book s website The numerical experiments use real world data sets obtained from industries and research institutes

Linear Control System Analysis and Design with MATLAB Constantine H. Houpis, Stuart N. Sheldon, 2013-10-30 This book uses numerous in depth explanations diagrams calculations and tables to provide an intensive overview of modern control theory and control system design Mathematics is kept to a minimum and engineering applications are stressed throughout Completely updated and packed with student friendly features the sixth edition presents a range of updated examples using MATLAB as well as an appendix listing MATLAB functions for optimizing control system analysis and design Over 75 percent of the problems presented in the previous edition have been revised or replaced

Stability and Stabilization William J. Terrell, 2009-01-26 Stability and Stabilization is the first intermediate level textbook that covers stability and stabilization of equilibria for both linear and nonlinear time invariant systems of ordinary differential equations Designed for advanced undergraduates and beginning graduate students in the sciences engineering and mathematics the book takes a unique modern approach that bridges the gap between linear and nonlinear systems Presenting stability and stabilization of equilibria as a core problem of mathematical control theory the book emphasizes the subject s mathematical coherence and unity and it introduces and develops many of the core concepts of systems and control theory There are five chapters on linear systems and nine chapters on nonlinear systems an introductory chapter a mathematical background chapter a short final chapter on further reading and appendixes on basic analysis ordinary differential equations manifolds and the Frobenius theorem and comparison functions and their use in differential equations The introduction to linear system theory presents the full framework of basic state space theory providing just enough detail to prepare students for the material on nonlinear systems Focuses on stability and feedback stabilization Bridges the gap between linear and nonlinear systems for advanced undergraduates and beginning graduate students Balances coverage of linear and nonlinear systems Covers cascade systems Includes many examples and exercises

Perturbation Theory for Matrix Equations M. Konstantinov, D. Wei Gu, V. Mehrmann, P. Petkov, 2003-05-20 The book is devoted to the perturbation analysis of matrix equations The importance of perturbation analysis is that it gives a way to estimate the influence of measurement and or parametric errors in mathematical models together with the rounding errors done in the computational process The perturbation bounds may

further be incorporated in accuracy estimates for the solution computed in finite arithmetic This is necessary for the development of reliable computational methods algorithms and software from the viewpoint of modern numerical analysis In this book a general perturbation theory for matrix algebraic equations is presented Local and non local perturbation bounds are derived for general types of matrix equations as well as for the most important equations arising in linear algebra and control theory A large number of examples tables and figures is included in order to illustrate the perturbation techniques and bounds Key features The first book in this field Can be used by a variety of specialists Material is self contained Results can be used in the development of reliable computational algorithms A large number of examples and graphical illustrations are given Written by prominent specialists in the field

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