

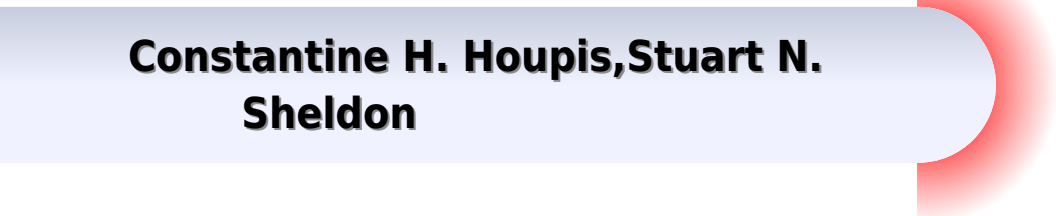


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Numerical Methods For Linear Control Systems

**Constantine H. Houpis, Stuart N.
Sheldon**



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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 polynomials 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 2 Piecewise Linear Modeling 9 2 1 Model Representation 9 2 2 Solution Concepts 2 3 Uncertainty Models 2 4 Modularity and Interconnections 26 2 5 Piecewise Linear Function Representations 28 2 6 Comments and References 30 3 Structural Analysis 32 3 1 Equilibrium Points and the

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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. An Introduction to Linear Control Systems Thomas E. Fortmann, Konrad L.

Hitz, 1977-10-01 **Linear Control System Analysis and Design with MATLAB** Constantine H. Houppis, 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.

Design of Linear Multivariable Feedback Control Systems Joseph J. Bongiorno Jr., Kiheon Park, 2020-07-09 This book contains a derivation of the subset of stabilizing controllers for analog and digital linear time invariant multivariable feedback control systems that insure stable system errors and stable controller outputs for persistent deterministic reference inputs that are trackable and for persistent deterministic disturbance inputs that are rejectable. For this subset of stabilizing controllers, the Wiener Hopf methodology is then employed to obtain the optimal controller for which a quadratic performance measure is minimized. This is done for the completely general standard configuration and methods that enable the trading off of optimality for an improved stability margin and/or reduced sensitivity to plant model uncertainty are described. New and novel results on the optimal design of decoupled non interacting systems are also presented. The results are applied in two examples: the one and three degree of freedom configurations. These demonstrate that the standard configuration is one encompassing all possible feedback configurations. Each chapter is completed by a group of worked examples which reveal additional insights and extensions of the theory presented in the chapter. Three of the examples illustrate the application of the theory to two physical cases: the depth and pitch control of a submarine and the control of a Rosenbrock process. In the latter case, designs with and without decoupling are compared. This book provides researchers and graduate students working in feedback control with a valuable reference for Wiener Hopf theory of multivariable design. Basic knowledge of linear systems and matrix theory is required. *Numerical Methods for Large-Scale Linear Time-Varying Control Systems and related Differential Matrix Equations* Norman Lang, 2018 This thesis is concerned with the linear quadratic optimal control and model order reduction (MOR) of large scale linear time varying (LTV) control systems. In the first two parts, particular attention is paid to a tracking type finite time optimal control problem with application to an inverse heat conduction problem and the balanced truncation (BT) MOR method for LTV systems. In both fields of application, the efficient solution of differential matrix equations (DMEs) is of major importance. The third and largest part deals with the application of implicit time integration methods to these matrix valued ordinary differential equations. In this context, in particular, the rather new class of peer methods is introduced. Further, for the efficient solution of large scale DMEs, in

practice low rank solution strategies are inevitable Here low rank time integrators based on a symmetric indefinite factored representation of the right hand sides and the solution approximations of the DMEs are presented In contrast to the classical low rank Cholesky type factorization this avoids complex arithmetic and tricky implementations and algorithms Both low rank approaches are compared for numerous implicit time integration methods

Computational Methods for Linear Control Systems Petko Hr. Petkov, Nikolai D. Christov, Mihail M. Konstantinov, 1991-01-01

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