

Alexander Weinmann

Uncertain Models and Robust Control



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Uncertain Models And Robust Control

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Uncertain Models and Robust Control Alexander Weinmann, 1991 INHALT LANG Introduction Introductory Survey Vector Norm Matrix Norm Matrix Measure Functional Analysis Function Norms and Control Signals Differential Sensitivity Small Scale Perturbation Kronecker Calculus in Control Theory Analysis Using Matrices and Control Theory Eigenvalue and Eigenvector Differential Sensitivity Transition Matrix Differential Sensitivity Characteristic Polynomial Differential Sensitivity Optimal Control and Performance Sensitivity Desensitizing Control Robustness in the Time Domain General Stability Bounds in Perturbed Systems Robust Dynamic Interval Systems Lyapunov Based Methods for Perturbed Continuous Time Systems Lyapunov Based Methods for Perturbed Discrete Time Systems Robust Pole Assignment Models for Optimal and Interconnected Systems Robust State Feedback Using Ellipsoid Sets Robustness of Observers and Kalman Bucy Filters Initial Condition Perturbation Overshoot and Robustness Lnp Stability and Robust Nonlinear Control Robustness in the Frequency Domain Uncertain Polynomials Interval Polynomials Eigenvalues and Singular Values of Complex Matrices Resolvent Matrix and Stability Radius Robustness Via Singular Value Analysis Generalized Nyquist Stability of Perturbed Systems Block Structured Uncertainty and Structured Singular Value Performance Robustness Robust Controllers Via Spectral Radius Technique Coprime Factorization and Minimax Frequency Optimization Robustness Based on the Internal Model Principle Parametrization and Factorization of Systems Hardy Space Robust Design Robustness Via Approximative Models Robust Hyperplane Design in Variable Structure Control SIngular Perturbaitons Unmodelled High Frequendy Dynamics Control Using Aggregation Models Optimum Control of Approximate and Nonlinear Systems System Analysis via Orthogonal Functions System Analysis Via Pulse Functions and Piecewise Linear Functions Orthogonal Decomposition Applications

Robust Control of Uncertain Dynamic Systems Rama K. Yedavalli, 2013-12-05 This textbook aims to provide a clear understanding of the various tools of analysis and design for robust stability and performance of uncertain dynamic systems In model based control design and analysis mathematical models can never completely represent the real world system that is being modeled and thus it is imperative to incorporate and accommodate a level of uncertainty into the models This book directly addresses these issues from a deterministic uncertainty viewpoint and focuses on the interval parameter characterization of uncertain systems Various tools of analysis and design are presented in a consolidated manner This volume fills a current gap in published works by explicitly addressing the subject of control of dynamic systems from linear state space framework namely using a time domain matrix theory based approach This book also Presents and formulates the robustness problem in a linear state space model framework Illustrates various systems level methodologies with examples and applications drawn from aerospace electrical and mechanical engineering Provides connections between lyapunov based matrix approach and the transfer function based polynomial approaches Robust Control of Uncertain Dynamic Systems A Linear State Space Approach is an ideal book for first year graduate students taking a course in robust control in aerospace

mechanical or electrical engineering **On the Formulation of a Minimal Uncertainty Model for Robust Control with Structured Uncertainty** Christine M. Belcastro,1991 Robust Control - Theoretical Models and Case Studies ,2016

On the Formulation of a Minimal Uncertainty Model for Robust Control with Structured Uncertainty National Aeronautics and Space Administration (NASA),2018-07-09 In the design and analysis of robust control systems for uncertain plants representing the system transfer matrix in the form of what has come to be termed an M_Δ model has become widely accepted and applied in the robust control literature The M represents a transfer function matrix M_s of the nominal closed loop system and the Δ represents an uncertainty matrix acting on M_s The nominal closed loop system M_s results from closing the feedback control system K_s around a nominal plant interconnection structure P_s The uncertainty can arise from various sources such as structured uncertainty from parameter variations or multiple unsaturated uncertainties from unmodeled dynamics and other neglected phenomena In general Δ is a block diagonal matrix but for real parameter variations Δ is a diagonal matrix of real elements Conceptually the M_Δ structure can always be formed for any linear interconnection of inputs outputs transfer functions parameter variations and perturbations However very little of the currently available literature addresses computational methods for obtaining this structure and none of this literature addresses a general methodology for obtaining a minimal M_Δ model for a wide class of uncertainty where the term minimal refers to the dimension of the Δ matrix Since having a minimally dimensioned Δ matrix would improve the efficiency of structured singular value or multivariable stability margin computations a method of obtaining a minimal M_Δ would be useful Hence a method of obtaining the interconnection system P_s is required A generalized procedure for obtaining a minimal P_Δ structure for systems with real parameter variations is presented Using this model the minimal M_Δ model can then be easily obtained by closing the feedback loop The procedure involves representing the system in a cascade form state space realization determining the minimal uncertainty matrix

Robust Control With Matlab. Analyzing and Tuning Control Systems A. Taylor,2017-11-14 Robust Control Toolbox provides functions and blocks for analyzing and tuning control systems for performance and robustness in the presence of plant uncertainty You can create uncertain models by combining nominal dynamics with uncertain elements such as uncertain parameters or unmodeled dynamics You can analyze the impact of plant model uncertainty on control system performance and identify worst case combinations of uncertain elements H_∞ and μ synthesis techniques let you design controllers that maximize robust stability and performance The most important features that this Toolbox provides are the following Getting Started Learn the basics of Robust Control Toolbox Uncertain System Representation Models of systems with uncertain parameters or unmodeled dynamics Uncertain System Analysis Statistical and worst case analysis of stability and performance Robust Controllers Frequency domain MIMO controller design controller design for uncertain systems Model Simplification order reduction of plant models and synthesized controllers Linear Matrix Inequalities LMI solvers control system analysis and design with

LMIs Automatic tuning of SISO and MIMO control systems for uncertain plants Robustness analysis and controller tuning in Simulink H infinity and mu synthesis algorithms *Validation, Identification, and Control of Robust Control Uncertainty Models* Sundeep Rangan,1997 **Topics in Model Validation and Uncertainty Quantification, Volume 4** T. Simmermacher,Scott Cogan,L.G. Horta,R. Barthorpe,2012-04-23 Topics in Model Validation and Uncertainty Quantification Volume 4 Proceedings of the 30th IMAC A Conference and Exposition on Structural Dynamics 2012 the fourth volume of six from the Conference brings together 19 contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics including papers on Robustness to Lack of Knowledge in Design Bayesian and Markov Chain Monte Carlo Methods Uncertainty Quantification Model Calibration *Robust Systems Theory and Applications* Ricardo S. Sánchez-Peña,Mario Sznaiier,1998-08-17 Designed as a university textbook this text on robust systems theory includes problems with every chapter a solutions manual and Matlab files containing worked examples **On the Formulation of a Minimal Uncertainty Model for Robust Control with Structured Uncertainty** Christine M. Belcastro,1991 *Robust Control – Theoretical Models and Case Studies* ,19?? *Challenges and Paradigms in Applied Robust Control* Andrzej Bartoszewicz,2011-11-16 The main objective of this book is to present important challenges and paradigms in the field of applied robust control design and implementation Book contains a broad range of well worked out recent application studies which include but are not limited to H infinity sliding mode robust PID and fault tolerant based control systems The contributions enrich the current state of the art and encourage new applications of robust control techniques in various engineering and non engineering systems **Robust Control Design with MATLAB®** Da-Wei Gu,Petko H. Petkov,Mihail M Konstantinov,2014-07-08 Robust Control Design with MATLAB second edition helps the student to learn how to use well developed advanced robust control design methods in practical cases To this end several realistic control design examples from teaching laboratory experiments such as a two wheeled self balancing robot to complex systems like a flexible link manipulator are given detailed presentation All of these exercises are conducted using MATLAB Robust Control Toolbox 3 Control System Toolbox and Simulink By sharing their experiences in industrial cases with minimum recourse to complicated theories and formulae the authors convey essential ideas and useful insights into robust industrial control systems design using major H infinity optimization and related methods allowing readers quickly to move on with their own challenges The hands on tutorial style of this text rests on an abundance of examples and features for the second edition rewritten and simplified presentation of theoretical and methodological material including original coverage of linear matrix inequalities new Part II forming a tutorial on Robust Control Toolbox 3 fresh design problems including the control of a two rotor dynamic system and end of chapter exercises Electronic supplements to the written text that can be downloaded from extras.springer.com isbn include M files developed with MATLAB help in understanding the essence of robust control system design portrayed in text based examples MDL files

for simulation of open and closed loop systems in Simulink and a solutions manual available free of charge to those adopting Robust Control Design with MATLAB as a textbook for courses Robust Control Design with MATLAB is for graduate students and practising engineers who want to learn how to deal with robust control design problems without spending a lot of time in researching complex theoretical developments

Mechatronic Systems and Materials II Inga Skiedraite, Jolanta Baskutiene, 2008-09-26 This interesting volume is divided into eight sections each of which covers an aspect of the subject matter i Robotics Industrial Microrobotics Mobile Robots ii Sensors and Actuators in Mechatronics iii Analysis of Vibration iv Failure Analysis v Measurement Techniques vi Materials properties modeling manufacturing and processing vii Education in the Fields of Mechatronic and Materials Science

NASA LaRC Workshop on Guidance, Navigation, Controls, and Dynamics for Atmospheric Flight, 1993, 1993 **Modeling Uncertainties in DC-DC Converters with MATLAB® and PLECS®** Farzin Asadi, Sawai Pongswatd, Kei Eguchi, Ngo Lam Trung, 2022-06-01 Modeling is the process of formulating a mathematical description of the system A model no matter how detailed is never a completely accurate representation of a real physical system A mathematical model is always just an approximation of the true physical reality of the system dynamics Uncertainty refers to the differences or errors between model and real systems and whatever methodology is used to present these errors will be called an uncertainty model Successful robust control system design would depend on to a certain extent an appropriate description of the perturbation considered Modeling the uncertainties in the switch mode DC DC converters is an important step in designing robust controllers This book studies different techniques which can be used to extract the uncertain model of DC DC converters Once the uncertain model is extracted robust control techniques such as and synthesis can be used to design the robust controller The book composed of two case studies The first one is a buck converter and the second one is a Zeta converter MATLAB programming is used extensively throughout the book Some sections use PLECS as well This book is intended to be guide for both academicians and practicing engineers

CONTROL SYSTEMS with MATLAB. ADVANCED ROBUST CONTROL A. Smith, 2017-11-15 Robust Control Toolbox provides functions and blocks for analyzing and tuning control systems for performance and robustness in the presence of plant uncertainty You can create uncertain models by combining nominal dynamics with uncertain elements such as uncertain parameters or unmodeled dynamics You can analyze the impact of plant model uncertainty on control system performance and identify worst case combinations of uncertain elements H infinity and mu synthesis techniques let you design controllers that maximize robust stability and performance The most important content that this book provides are the following Building Uncertain Models Uncertain Real Parameters Properties of Uncertain Real Parameters Create Uncertain Real Parameters Uncertain LTI Dynamics Elements Create Uncertain LTI Dynamics Properties of ultidyn Elements Time Domain of ultidyn Elements Interpreting Uncertainty in Discrete Time Uncertain Complex Parameters and Matrices Systems with Unmodeled Dynamics Uncertain Matrices Create and Manipulate Uncertain Matrices Evaluate Uncertain Elements by Substitution

Uncertain State Space Models Create Uncertain State Space uss Model Properties of uss Objects Lifting a ss to a uss Sample Uncertain Systems Uncertain Model Interconnections Basic Model Interconnections Create Uncertain Frequency Response Data Models Properties of ufrd Objects Lifting an frd to a ufrd Simplifying Representation of Uncertain Objects Effect of the Autosimplify Property Direct Use of simplify Generate Samples of Uncertain Systems Generating One Sample Generating Many Samples Sampling ultidyn Elements Substitution by usubs Specifying the Substitution with Structures Nominal and Random Values Array Management for Uncertain Objects Create Arrays with stack and cat Functions Create Arrays by Assignment Binary Operations with Arrays Sample Uncertain Elements to Create Arrays Substitute Uncertain Elements to Create Arrays Create Arrays with gridreal Create Arrays with repmat Create Arrays with repsys Using permute and ipermute Decomposing Uncertain Objects Normalizing Functions for Uncertain Elements Generalized Robustness Analysis Robustness and Worst Case Analysis Robustness Analysis Worst Case Gain Measure Robust Stability Robust Performance and Mu Analysis Getting Reliable Estimates of Robustness Margins Linear Matrix Inequalities LMI LMIs and LMI Problems LMI Applications Stability RMS Gain and LQG Performance Tools for Specifying and Solving LMIs Overview of the LMI Lab Specifying a System of LMIs Specify LMI System at the Command Line Initializing the LMI System Specifying the LMI Variables Specifying Individual LMIs Specify LMIs with the LMI Editor GUI How lmvivar and lmiterm Manage LMI Representation Querying the LMI System Description LMI Solvers Minimize Linear Objectives under LMI Constraints Conversion Between Decision and Matrix Variables Validating Results Modify a System of LMIs Deleting an LMI Deleting a Matrix Variable Instantiating a Matrix Variable Advanced LMI Techniques Structured Matrix Variables Complex Valued LMIs Specifying cTx Objectives for mincx Feasibility Radius Well Posedness Issues Efficiency and Complexity Issues Analyzing Uncertainty in Simulink Simulink Blocks for Analyzing Uncertainty Specify Uncertainty Using Uncertain State Space Blocks How to Specify Uncertainty in Uncertain State Space Blocks Simulate Uncertainty Effects How to Simulate Effects of Uncertainty How to Vary Uncertainty Values Vary Uncertainty Values Using Individual Uncertain State Space Blocks Vary Uncertainty Values Across Multiple Uncertain State Space Blocks Compute Uncertain State Space Models from Simulink Models Linearize Block to Uncertain Model Analyzing Stability Margin of Simulink Models Stability Margin of a Simulink Model

Robust Control Kang-Zhi Liu, Yu Yao, 2016-12-08 Comprehensive and up to date coverage of robust control theory and its application Presented in a well planned and logical way Written by a respected leading author with extensive experience in robust control Accompanying website provides solutions manual and other supplementary material [Robust Control Synthesis Using Coprime Factor Uncertainty Models](#) Robert C. Osborne, 1994 **Technical digest** Naval Surface Warfare Center (U.S.). Dahlgren Division, 1994*

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