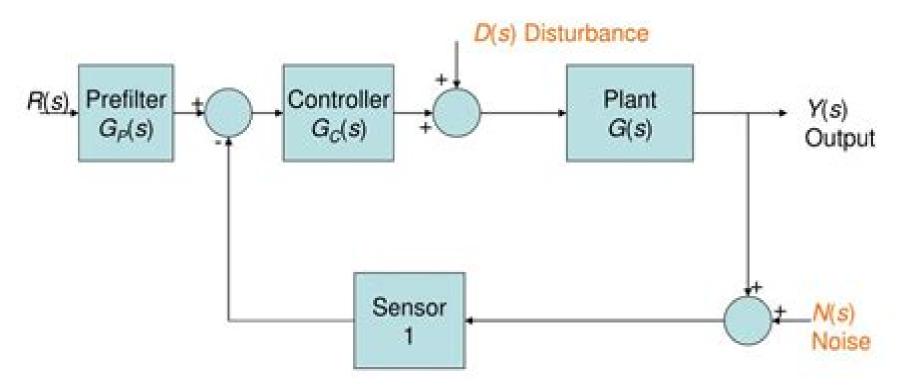
A robust control system exhibits the desired performance despite the presence of significant plant (process) uncertainty

The goal of robust design is to retain assurance of system performance in spite of model inaccuracies and changes. A system is robust when it has acceptable changes in performance due to model changes or inaccuracies.



Robust Control System Design

Ricardo S. Sánchez-Peña, Mario Sznaier

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This volume is composed of 10 chapters and begins with a presentation of the important techniques for dealing with conflicting design objectives in control systems The subsequent chapters describe the robustness techniques of systems using differential difference equations the design of a wide class of robust nonlinear systems the techniques for dealing with the problems resulting from the use of observers in robust systems design and the effective techniques for the robust control on non linear time varying of tracking control systems with uncertainties These topics are followed by discussions of the effective techniques for the robust control on non linear time varying of tracking control systems with uncertainties and for incorporating adaptive control techniques into a non adaptive robust control design Other chapters present techniques for achieving exponential and robust stability for a rather general class of nonlinear systems techniques in modeling uncertain dynamics for robust control systems design and techniques for the optimal synthesis of these systems The last chapters provide a generalized eigenproblem solution for both singular and nonsingular system cases These chapters also look into the stability robustness design for discrete time systems. This book will be of value to process and systems engineers designers and researchers Robust Control Systems with Genetic Algorithms Mo Jamshidi, Renato A. Krohling, Leandro dos S. Coelho, Peter J. Fleming, 2002-10-14 In recent years new paradigms have emerged to replace or augment the traditional mathematically based approaches to optimization The most powerful of these are genetic algorithms GA inspired by natural selection and genetic programming an extension of GAs based on the optimization of symbolic codes Robust Control Systems with Genetic Algorithms builds a bridge between genetic algorithms and the design of robust control systems After laying a foundation in the basics of GAs and genetic programming it demonstrates the power of these new tools for developing optimal robust controllers for linear control systems optimal disturbance rejection controllers and predictive and variable structure control It also explores the application of hybrid approaches how to enhance genetic algorithms and programming with fuzzy logic to design intelligent control systems The authors consider a variety of applications such as the optimal control of robotic manipulators flexible links and jet engines and illustrate a multi objective genetic algorithm approach to the design of robust controllers with a gasification plant case study The authors are all masters in the field and clearly show the effectiveness of GA techniques Their presentation is your first opportunity to fully explore this cutting edge approach to robust optimal control system design and exploit its methods for your own applications **Uncertain Models and Robust** <u>Control</u> Alexander Weinmann, 2012-12-06 Control systems particularly designed to manage uncertainties are called robust control system Choosing appropriate design methods the influence of uncertainties on the closed loop behaviour can be reduced to a large extent Most of the important areas of robust control are covered The aim of the book is to provide an introduction to the theory and methods of robust control system design to present a coherent body of knowledge to clarify and unify presentation of significant derivations and proofs The book contains a thorough treatment of important material of uncertainties and robust control which is scattered throughout the literature **Robust Control Systems** Uwe

Mackenroth, 2013-04-17 Robust Control Systems gives a self contained introduction to modern Control Theory It thus adds a textbook to the existing research oriented literature on Robust Control The author lays emphasis on the modern aspects of the design of controllers with prescribed performance and robustness properties Different to the classical engineering approach a rigorous mathematical treatment is essential for the full understanding and applicability of the modern methods such as H2 or H8 control or methods based on the structured singular value Nevertheless no prior knowledge of Control Theory is required as the classical fundamentals are introduced within the first few chapters Subsequently a large part of the text provides elementary examples and industrial case studies which are developed in full detail to show how modern methods can be applied to advanced problems They make intensive use of MATLAB especially the Control Systems Toolbox and the Analysis and Synthesis Toolbox Control and Dynamic Systems V51: Robust Control System Techniques and Applications C.T. Leonides, 2012-12-02 Control and Dynamic Systems Advances in Theory and Application Volume 51 Robust Control System Techniques and Applications Part 2 of 2 discusses system robustness techniques This volume presents a comprehensive treatment of robust system techniques in nonlinear linear and multilinear interval systems It also covers techniques for dealing with system disturbances system modeling approximations and parameter uncertainties This volume ends by reviewing robustness techniques for systems with structured state space uncertainty This volume will be of great use Robust Control Sharon Bennett, 2017 The Robust Control as a reference source for mechanical and electrical engineers Theory involves powerful methods for analysis and design of control systems in presence of signal and parameter uncertainties The most frequently used techniques for robust control design are the H design and the synthesis In this book Chapter One reviews issues related to the design and practical implementation of high order robust controllers Chapter Two deals with multi objective disturbance attenuation control and filtering problems for disturbances from different classes Chapter Three discusses a robust control design for general switched affine control systems Chapter Four presents a PID control scheme for a synchronous motor with permanent magnets **Design of Robust Control Systems** Marcel J. Sidi,2001 A study of the practical aspects in designing feedback control systems in which the plant may be non minimum phase unstable and also highly uncertain Classical QFT and modern Hoo design approaches are explained side by side and are used to solve design examples Robust Systems Theory and Applications Ricardo S. Sánchez-Peña, Mario Sznaier, 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 Robust Control in Power Systems Bikash Pal, Balarko Chaudhuri, 2005-06-21 Robust Control in Power Systems deals with the applications of new techniques in linear system theory to control low frequency oscillations in power systems The book specifically focuses on the analysis and damping of inter area oscillations in the systems which are in the range of 0 2 1 Hz The damping control action is injected through high power electronic devices known as flexible AC transmission system FACTS controllers Three commonly used

FACTS controllers controllable series capacitors CSCs controllable phase shifters CPSs and static var compensators SVCs have been used in this book to control the inter area oscillations. The overview of linear system theory from the perspective of power system control is explained through examples The damping control design is formulated as norm optimization problem The H infinity H2 norm of properly defined transfer functions are minimized in linear matrix inequalities LMI framework to obtain desired performance and stability robustness Both centralized and decentralized control structures are used Usually the transmission of feedback signal from a remote location encounters delays making it difficult to control the system Smith predictor based approach has been successfully explored in this book as a solution to such a problem Robust Control in Power Systems will be valuable to academicians in the areas of power control and system theory as well as professionals in the power industry Industrial Control Systems Design Michael J. Grimble, 2001-03-30 Bridging the gap between research and industry this volume systematically and comprehensively presents the latest advances in control and estimation With emphasis on applications industrial problems illustrate the use of transfer function and state space methods for modelling and design Combining theroy with practice Industrial Control Systems Design will appeal to practising engineers and academic researchers in control engineering This unique reference spans fundamental state space and polynomial systems theory and introduces quantitative feedback theory Includes design case studies with illustrative problem descriptions and analysis from the steel marine process control aerospace and power generation sectors Focuses on the challenges in predictive optimal control now an indispensable method in advanced control applications Provides an introduction to safety critical control systems design and combined fault monitoring and control techniques Discusses the design of LQG and H controllers with several degrees of freedom including feedback tracking and feedforward functions **Practical Methods** for Robust Control System Design, IEE Colloquium on Institute of Electrical and Electronics Engineers, 1991

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