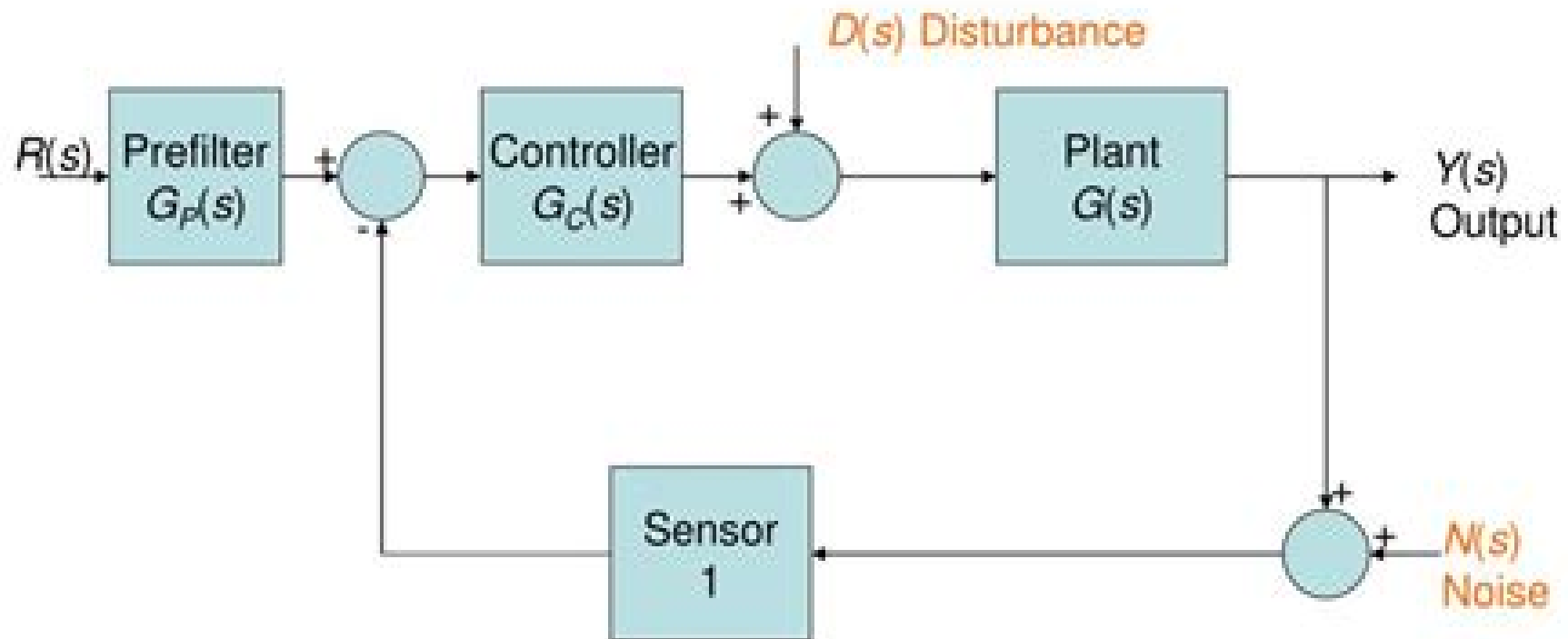


**A robust control system exhibits the desired performance despite the presence of significant plant (process) uncertainty**

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

**Chia-Chi Tsui**



## **Robust Control System Design:**

*Robust Control System Design* Chia-Chi Tsui, 2022-06-01 This book presents a synthesized design principle versus the existing separation principle of modern control theory of over six decades since the start. Guided by this new principle, a generalized state feedback control can be designed based on the parameters of observer and for a great majority of plant systems and the robust property of this control can be fully realized. The robust property of the existing state feedback control which is designed separate from the parameters of its realizing observer cannot be realized for a great majority of plant systems. By freely design and adjust the observer order, the corresponding generalized state feedback control can unify completely the existing state feedback control and static output feedback control and can adjust effectively the tradeoff between performance and robustness. This generalized state feedback control can assign eigen structure and can improve performance and robustness far more effectively than the control designed using classical control theory. Equally significant, the results of this book are very simple that can be comprehended and grasped very easily. These results are introduced and illustrated from the basic level and use only the basic mathematical tools. Ample examples and exercise problems that can be solved by hand computation are provided. This third edition made substantial improvement on this aspect. Modern control theoreticians only formulated the feedback control design problem in various ways, the point however is to really solve this problem.

**Robust Control** Jürgen Ackermann, 2012-12-06 Many plants have large variations in operating conditions. To ensure smooth running, it is essential to find a simple fixed gain controller that guarantees rapidly decaying and well damped transients for all admissible operating conditions. Robust Control presents design tools developed by the authors for the solution of this design problem. Examples of simple and complex cases such as a crane, a flight control problem, and the automatic and active four wheel steering of a car illustrate the use of these tools. This book is intended for anyone who has taken an undergraduate course in feedback control systems and who seeks an advanced treatment of robust control with applications. Drawing on the resources and authoritative research of a leading aerospace institute, it will mainly be of interest to mechanical and electrical engineers in universities, institutes, and industrial research centres.

*Robust Control System Design* Chia-Chi Tsui, 2019-10-17 Robust Control System Design: Advanced State Space Techniques, Second Edition, expands upon a groundbreaking and combinatorial approach to state space control system design that fully realizes the critical loop transfer function and robustness properties of state generalized state feedback control. This edition offers many new examples and exercises to illustrate and clarify new design concepts, approaches, and procedures while highlighting the fact that state generalized state feedback control can improve system performance and robustness more effectively than other forms of control. Revised and expanded throughout, the second edition presents an improved eigenstructure assignment design method that enhances system performance and robustness more directly and effectively and allows for adjustment of design formulations based on design testing and simulation. The author proposes the systematic controller order adjustment

for the tradeoff between performance and robustness based on the complete unification of the state feedback control and static output feedback control The book also utilizes a more accurate robust stability measure to guide control designs

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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     *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  $H_2$  or  $H_\infty$  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     **Uncertain Models and Robust Control** 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     **Control and Dynamic Systems V50: Robust Control System Techniques and Applications**

C.T. Leonides,2012-12-02 *Control and Dynamic Systems Advances in Theory and Applications Volume 50* Robust Control System Techniques and Applications Part 1 of 2 is a two volume sequence devoted to the issues and application of robust control systems techniques 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 *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 as a reference source for mechanical and electrical engineers **Robust Control** Sharon Bennett, 2017 The Robust Control 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 **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 theory 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 **Embedded Control System Design** Alexandru Forrai, 2012-07-27 Control system design is a challenging task for practicing engineers It requires knowledge of different engineering fields a good understanding of technical specifications and good communication skills The current book introduces the reader into practical control system

design bridging the gap between theory and practice The control design techniques presented in the book are all model based considering the needs and possibilities of practicing engineers Classical control design techniques are reviewed and methods are presented how to verify the robustness of the design It is how the designed control algorithm can be implemented in real time and tested fulfilling different safety requirements Good design practices and the systematic software development process are emphasized in the book according to the generic standard IEC61508 The book is mainly addressed to practicing control and embedded software engineers working in research and development as well as graduate students who are faced with the challenge to design control systems and implement them in real time     *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



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