■ FENG LIN

# ROBUST CONTROL DESIGN

## AN OPTIMAL CONTROL APPROACH

# Robust Control Design An Optimal Control Approach Hardcover

Mi-Ching Tsai,Da-Wei Gu

**Robust Control Design An Optimal Control Approach Hardcover:**

**Robust Control Design** Feng Lin,1997 **Robust and Optimal Control** Mi-Ching Tsai,Da-Wei Gu,2014-01-07 A Two port Framework for Robust and Optimal Control introduces an alternative approach to robust and optimal controller synthesis procedures for linear time invariant systems based on the two port system widespread in electrical engineering The novel use of the two port system in this context allows straightforward engineering oriented solution finding procedures to be developed requiring no mathematics beyond linear algebra A chain scattering description provides a unified framework for constructing the stabilizing controller set and for synthesizing H2 optimal and H sub optimal controllers Simple yet illustrative examples explain each step A Two port Framework for Robust and Optimal Control features a hands on tutorial style presentation giving the reader the opportunity to repeat the designs presented and easily to modify them for their own programs an abundance of examples illustrating the most important steps in robust and optimal design and end of chapter exercises To further demonstrate the proposed approaches in the last chapter an application case study is presented which demonstrates the use of the framework in a real world control system design and helps the reader quickly move on with their own challenges MATLAB codes used in examples throughout the book and solutions to selected exercise questions are available for download The text will have particular resonance for researchers in control with an electrical engineering background who wish to avoid spending excessive time in learning complex mathematical theoretical developments but need to know how to deal with robust and optimal control synthesis problems Please see http km emotors ncku edu tw class hw1 html for solutions to the exercises provided in this book **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 **Linear Multivariable Control Engineering Using GNU Octave** Wolfgang Borutzky,2024-05-02 This textbook presents an in depth introductory survey of several fundamental advanced control concepts and techniques all ranging from modern ideas The book emphasizes ideas an understanding of key concepts methodologies and results In line with this the book addresses master s students in the overlap of engineering and computer science as well as engineers working in various application fields and interested in useful control techniques and less in system theories appealing from a mathematical point of view The book aims to show what methods and results learned for single variable systems are also applicable to multivariable systems what is different and why The structured text covers a broad spectrum of topics from decentralized control to the use of linear matrix inequalities LMIs Methods and results are illustrated by many examples and using free open source mathematical software predominately GNU Octave In some cases the free mathematical software package Scilab is also used The book features exercises and examples throughout Optimal Control of PDEs under Uncertainty Jesús Martínez-Frutos,Francisco Periago Esparza,2018-08-30 This book provides a direct and comprehensive introduction to theoretical and numerical concepts in the emerging field of optimal control of partial differential equations PDEs under uncertainty The main objective of the book is to offer graduate students and researchers a smooth transition from optimal control of deterministic PDEs to optimal control of random PDEs Coverage includes uncertainty modelling in control problems variational formulation of PDEs with random inputs robust and risk averse formulations of optimal control problems existence theory and numerical resolution methods The exposition focusses on the entire path starting from uncertainty modelling and ending in the practical implementation of numerical schemes for the numerical approximation of the considered problems To this end a selected number of illustrative examples are analysed in detail throughout the book Computer codes written in MatLab are provided for all these examples This book is adressed to graduate students and researches in Engineering Physics and Mathematics who are interested in optimal control and optimal design for random partial differential equations **Optimal Reference Shaping for Dynamical Systems** Tarunraj Singh,2009-10-28 Integrating feedforward control with feedback control can significantly improve the performance of control systems compared to using feedback control alone Focusing on feedforward control techniques Optimal Reference Shaping for Dynamical Systems Theory and Applications lucidly covers the various algorithms for attenuating residual oscillations **True Digital Control** C. James Taylor,Peter C. Young,Arun Chotai,2013-05-29 True Digital Control Statistical Modelling andNon Minimal State Space Designdevelops a true digitalcontrol design philosophy that encompasses data basedmodel identification through to control algorithm design robustness evaluation and implementation With a heritage from

bothclassical and modern control system synthesis this book issupported by detailed practical examples based on theauthors research into environmental mechatronic and roboticsystems Treatment of both statistical modelling and control designunder one cover is unusual and highlights the important connectionsbetween these disciplines Starting from the ubiquitous proportional integralcontroller and with essential concepts such as pole assignmentintroduced using straightforward algebra and block diagrams thisbook addresses the needs of those students researchers andengineers who would like to advance their knowledge of controltheory and practice into the state space domain and academics whoare interested to learn more about non minimal state variablefeedback control systems Such non minimal state feedback isutilised as a unifying framework for generalised digital controlsystem design This approach provides a gentle learning curve fromwhich potentially difficult topics such as optimal stochastic andmultivariable control can be introduced and assimilated in aninteresting and straightforward manner Key features Covers both system identification and control systemdesign in a unified manner Includes practical design case studies and simulationexamples Considers recent research into time variable andstate dependent parameter modelling and control essentialelements of adaptive and nonlinear control system design and thedelta operator the discrete time equivalent of thedifferential operator systems Accompanied by a website hosting MATLAB examples True Digital Control Statistical Modelling andNon Minimal State Space Design is a comprehensive andpractical guide for students and professionals who wish to furthertheir knowledge in the areas of modern control and systemidentification      **Attractive Ellipsoids in Robust Control** Alexander Poznyak,Andrey Polyakov,Vadim Azhmyakov,2014-09-29 This monograph introduces a newly developed robust control design technique for a wide class of continuous time dynamical systems called the attractive ellipsoid method Along with a coherent introduction to the proposed control design and related topics the monograph studies nonlinear affine control systems in the presence of uncertainty and presents a constructive and easily implementable control strategy that guarantees certain stability properties The authors discuss linear style feedback control synthesis in the context of the above mentioned systems The development and physical implementation of high performance robust feedback controllers that work in the absence of complete information is addressed with numerous examples to illustrate how to apply the attractive ellipsoid method to mechanical and electromechanical systems While theorems are proved systematically the emphasis is on understanding and applying the theory to real world situations Attractive Ellipsoids in Robust Control will appeal to undergraduate and graduate students with a background in modern systems theory as well as researchers in the fields of control engineering and applied mathematics      **Applied Linear Optimal Control Paperback with CD-ROM** Arthur E. Bryson,2002-08-29 CD ROM contains MATLAB codes of the OPTEST toolbox Code for examples figures and selected problems in text      **Continuous Manufacturing of Pharmaceuticals** Peter Kleinebudde,Johannes Khinast,Jukka Rantanen,2017-07-14 A comprehensive look at existing technologies and processes for continuous manufacturing of pharmaceuticals As rising costs outpace new

drug development the pharmaceutical industry has come under intense pressure to improve the efficiency of its manufacturing processes Continuous process manufacturing provides a proven solution Among its many benefits are minimized waste energy consumption and raw material use the accelerated introduction of new drugs the use of smaller production facilities with lower building and capital costs the ability to monitor drug quality on a continuous basis and enhanced process reliability and flexibility Continuous Manufacturing of Pharmaceuticals prepares professionals to take advantage of that exciting new approach to improving drug manufacturing efficiency This book covers key aspects of the continuous manufacturing of pharmaceuticals The first part provides an overview of key chemical engineering principles and the current regulatory environment The second covers existing technologies for manufacturing both small molecule based products and protein peptide products The following section is devoted to process analytical tools for continuously operating manufacturing environments The final two sections treat the integration of several individual parts of processing into fully operating continuous process systems and summarize state of art approaches for innovative new manufacturing principles Brings together the essential know how for anyone working in drug manufacturing as well as chemical food and pharmaceutical scientists working on continuous processing Covers chemical engineering principles regulatory aspects primary and secondary manufacturing process analytical technology and quality by design Contains contributions from researchers in leading pharmaceutical companies the FDA and academic institutions Offers an extremely well informed look at the most promising future approaches to continuous manufacturing of innovative pharmaceutical products Timely comprehensive and authoritative Continuous Manufacturing of Pharmaceuticals is an important professional resource for researchers in industry and academe working in the fields of pharmaceuticals development and manufacturing

    **Stochastic Dynamics and Control** Jian-Qiao Sun,2006-08-10 This book is a result of many years of author s research and teaching on random vibration and control It was used as lecture notes for a graduate course It provides a systematic review of theory of probability stochastic processes and stochastic calculus The feedback control is also reviewed in the book Random vibration analyses of SDOF MDOF and continuous structural systems are presented in a pedagogical order The application of the random vibration theory to reliability and fatigue analysis is also discussed Recent research results on fatigue analysis of non Gaussian stress processes are also presented Classical feedback control active damping covariance control optimal control sliding control of stochastic systems feedback control of stochastic time delayed systems and probability density tracking control are studied Many control results are new in the literature and included in this book for the first time The book serves as a reference to the engineers who design and maintain structures subject to harsh random excitations including earthquakes sea waves wind gusts and aerodynamic forces and would like to reduce the damages of structural systems due to random excitations Comprehensive review of probability theory and stochastic processes Random vibrations Structural reliability and fatigue Non Gaussian fatigue Monte Carlo methods Stochastic calculus and engineering

applications Stochastic feedback controls and optimal controls Stochastic sliding mode controls Feedback control of stochastic time delayed systems Probability density tracking control  **Control Systems** Jitendra R. Raol,Ramakalyan Ayyagari,2019-07-12 Control Systems Classical Modern and AI Based Approaches provides a broad and comprehensive study of the principles mathematics and applications for those studying basic control in mechanical electrical aerospace and other engineering disciplines The text builds a strong mathematical foundation of control theory of linear nonlinear optimal model predictive robust digital and adaptive control systems and it addresses applications in several emerging areas such as aircraft electro mechanical and some nonengineering systems DC motor control steel beam thickness control drum boiler motional control system chemical reactor head disk assembly pitch control of an aircraft yaw damper control helicopter control and tidal power control Decentralized control game theoretic control and control of hybrid systems are discussed Also control systems based on artificial neural networks fuzzy logic and genetic algorithms termed as AI based systems are studied and analyzed with applications such as auto landing aircraft industrial process control active suspension system fuzzy gain scheduling PID control and adaptive neuro control Numerical coverage with MATLAB is integrated and numerous examples and exercises are included for each chapter Associated MATLAB code will be made available  **Structured Controllers for Uncertain Systems** Rosario Toscano,2013-05-29 Structured Controllers for Uncertain Systems focuses on the development of easy to use design strategies for robust low order or fixed structure controllers particularly the industrially ubiquitous PID controller These strategies are based on a recently developed stochastic optimization method termed the Heuristic Kalman Algorithm HKA the use of which results in a simplified methodology that enables the solution of the structured control problem without a profusion of user defined parameters An overview of the main stochastic methods employable in the context of continuous non convex optimization problems is also provided and various optimization criteria for the design of a structured controller are considered H H2 and mixed H2 H each merits a chapter to itself Time domain performance specifications can be easily incorporated in the design  Wind Energy Systems Mario Garcia-Sanz,Constantine H. Houpis,2012-02-02 Presenting the latest developments in the field Wind Energy Systems Control Engineering Design offers a novel take on advanced control engineering design techniques for wind turbine applications The book introduces concurrent quantitative engineering techniques for the design of highly efficient and reliable controllers which can be used to sol  **The Koopman Operator in Systems and Control** Alexandre Mauroy,Igor Mezić,Yoshihiko Susuki,2020-02-22 This book provides a broad overview of state of the art research at the intersection of the Koopman operator theory and control theory It also reviews novel theoretical results obtained and efficient numerical methods developed within the framework of Koopman operator theory The contributions discuss the latest findings and techniques in several areas of control theory including model predictive control optimal control observer design systems identification and structural analysis of controlled systems addressing both theoretical and numerical aspects and presenting open research directions as

well as detailed numerical schemes and data driven methods Each contribution addresses a specific problem After a brief introduction of the Koopman operator framework including basic notions and definitions the book explores numerical methods such as the dynamic mode decomposition DMD algorithm and Arnoldi based methods which are used to represent the operator in a finite dimensional basis and to compute its spectral properties from data The main body of the book is divided into three parts theoretical results and numerical techniques for observer design synthesis analysis stability analysis parameter estimation and identification data driven techniques based on DMD which extract the spectral properties of the Koopman operator from data for the structural analysis of controlled systems and Koopman operator techniques with specific applications in systems and control which range from heat transfer analysis to robot control A useful reference resource on the Koopman operator theory for control theorists and practitioners the book is also of interest to graduate students researchers and engineers looking for an introduction to a novel and comprehensive approach to systems and control from pure theory to data driven methods **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 Interval Analysis Navid Razmjooy,2023-12-27 Interval Analysis An innovative and unique application of interval analysis to optimal control problems In Interval Analysis Application in the Optimal Control Problems celebrated researcher and engineer Dr Navid Razmjooy delivers an expert discussion of the uncertainties in the analysis of optimal control problems In the book Dr Razmjooy uses an open ended approach to solving optimal control problems with indefinite intervals Utilizing an extended Runge Kutta method the author demonstrates how to accelerate its speed with the piecewise function You ll find recursive methods used to achieve more compact answers as well as how to solve optimal control problems using the interval Chebyshev s function The book also contains A thorough introduction to common errors and mistakes generating uncertainties in physical models Comprehensive explorations of the literature on the subject including Hukurara s derivatives Practical discussions of the interval analysis and its variants including the classical Minkowski methods Complete treatments of existing control methods including classic conventional advanced and robust control Perfect for master s and PhD students working on system uncertainties Interval Analysis Application in the Optimal Control Problems will also benefit researchers working in laboratories universities and research centers **Robust Adaptive Control** G.C. Goodwin,2014-05-23 The workshop brought together international experts in the field of robust adaptive control to present recent developments in the area These indicated that the theory of adaptive control is moving closer to applications and is beginning to give realistic guidelines useful in practical situations The proceedings also focused

on the value of such practical features as filtering normalization deadzones and unification of robust control and adaptation

   *Proceedings of the 4th Brazilian Technology Symposium (BTSym'18)* Yuzo Iano,Rangel Arthur,Osamu Saotome,Vânia Vieira Estrela,Hermes José Loschi,2019-05-28 This book presents the Proceedings of The 4th Brazilian Technology Symposium BTSym 18 Part I of the book discusses current technological issues on Systems Engineering Mathematics and Physical Sciences such as the Transmission Line Protein modified mortars Electromagnetic Properties Clock Domains Chebyshev Polynomials Satellite Control Systems Hough Transform Watershed Transform Blood Smear Images Toxoplasma Gondi Operation System Developments MIMO Systems Geothermal Photovoltaic Energy Systems Mineral Flotation Application CMOS Techniques Frameworks Developments Physiological Parameters Applications Brain Computer Interface Artificial Neural Networks Computational Vision Security Applications FPGA Applications IoT Residential Automation Data Acquisition Industry 4 0 Cyber Physical Systems Digital Image Processing Patters Recognition Machine Learning Photocatalytic Process Physical chemical analysis Smoothing Filters Frequency Synthesizers Voltage Controlled Ring Oscillator Difference Amplifier Photocatalysis and Photodegradation Part II of the book discusses current technological issues on Human Smart and Sustainable Future of Cities such as the Digital Transformation Data Science Hydrothermal Dispatch Project Knowledge Transfer Immunization Programs Efficiency and Predictive Methods PMBOK Applications Logistics Process IoT Data Acquisition Industry 4 0 Cyber Physical Systems Fingerspelling Recognition Cognitive Ergonomics Ecosystem services Environmental Ecosystem services valuation Solid Waste and University Extension BTSym is the brainchild of Prof Dr Yuzo Iano who is responsible for the Laboratory of Visual Communications LCV at the Department of Communications DECOM of the Faculty of Electrical and Computing Engineering FEEC State University of Campinas UNICAMP Brazil     **Optimal Control** Frank L. Lewis,Draguna Vrabie,Vassilis L. Syrmos,2012-03-20 A NEW EDITION OF THE CLASSIC TEXT ON OPTIMAL CONTROL THEORY As a superb introductory text and an indispensable reference this new edition of Optimal Control will serve the needs of both the professional engineer and the advanced student in mechanical electrical and aerospace engineering Its coverage encompasses all the fundamental topics as well as the major changes that have occurred in recent years An abundance of computer simulations using MATLAB and relevant Toolboxes is included to give the reader the actual experience of applying the theory to real world situations Major topics covered include Static Optimization Optimal Control of Discrete Time Systems Optimal Control of Continuous Time Systems The Tracking Problem and Other LQR Extensions Final Time Free and Constrained Input Control Dynamic Programming Optimal Control for Polynomial Systems Output Feedback and Structured Control Robustness and Multivariable Frequency Domain Techniques Differential Games Reinforcement Learning and Optimal Adaptive Control

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