Robust Control Design An Optimal Control Approach Hardcover

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this book provides a unified collection of important recent results for the design of robust controllers for uncertain systems most of the results presented are based on h control theory or its stochastic counterpart risk sensitive control theory central to the philosophy of the book is the notion of an uncertain system uncertain systems are considered using several different uncertainty modeling schemes these include norm bounded uncertainty integral quadratic constraint iqc uncertainty and a number of stochastic uncertainty descriptions in particular the authors examine stochastic uncertain systems in which the uncertainty is outlined by a stochastic version of the iqc uncertainty description for each class of uncertain systems covered in the book corresponding robust control problems are defined and solutions discussed

in recent decades a comprehensive new framework for the theory and design of control systems has emerged it treats a range of significant and ubiquitous design problems more effectively than the conventional framework control systems design brings together contributions from the originators of the new framework in which they explain expand and revise their research work it is divided into four parts basic principles including those of matching and inequalities with adjustments for robust matching and matching based on h infinity methods and linear matrix inequalities computational methods including matching conditions for transient inputs and design of a sampled data control system search methods including search with simulated annealing genetic algorithms and evaluation of the node array method case studies including applications in distillation benchmarking critical control of magnetic levitation systems and the use of the principle of matching in cruise control

shows readers how to exploit the capabilities of the matlab robust control and control systems toolboxes to the fullest using practical robust control examples

this book offers a comprehensive introduction to intelligent control system design using matlab simulation to verify typical intelligent controller designs it also uses real world case studies that present the results of intelligent controller implementations to illustrate the successful application of the theory addressing the need for systematic design approaches to intelligent control system design using neural network and fuzzy based techniques

the book introduces the concrete design method and matlab simulation of intelligent control strategies offers a catalog of implementable intelligent control design methods for engineering applications provides advanced intelligent controller design methods and their stability analysis methods and presents a sample simulation and matlab program for each intelligent control algorithm the main topics addressed are expert control fuzzy logic control adaptive fuzzy control neural network control adaptive neural control and intelligent optimization algorithms providing several engineering application examples for each method

cooperative control design a systematic passivity based approach discusses multi agent coordination problems including formation control attitude coordination and synchronization the goal of the book is to introduce passivity as a design tool for multi agent systems to provide exemplary work using this tool and to illustrate its advantages in designing robust cooperative control algorithms the discussion begins with an introduction to passivity and demonstrates how passivity can be used as a design tool for motion coordination followed by the case of adaptive redesigns for reference velocity recovery while describing a basic design a modified design and the parameter convergence problem formation control is presented as it relates to relative distance control and relative position control the coverage is concluded with a comprehensive discussion of agreement and the synchronization problem with an example using attitude coordination

this monograph focuses on control methods that influence vehicle dynamics to assist the driver in enhancing passenger comfort road holding efficiency and safety of transport etc while maintaining the driver s ability to override that assistance on individual vehicle component level the control problem is formulated and solved by a unified modelling and design method provided by the linear parameter varying lpv framework the global behaviour desired is achieved by a judicious interplay between the individual components guaranteed by an integrated control mechanism the integrated control problem is also formalized and solved in the lpv framework most important among the ideas expounded in the book are application of the lpv paradigm in the modelling and control design methodology application of the robust lpv design as a unified framework for setting control tasks related to active driver assistance formulation and solution proposals for the integrated vehicle control problem proposal for a reconfigurable and fault tolerant control architecture formulation and solution proposals for the plug and play concept detailed case studies robust control design for active vehicle assistance systems will be of interest to academic researchers and graduate students interested in automotive control and to control and mechanical engineers working in the automotive industry advances in industrial control aims to report and encourage the transfer of technology in control engineering the rapid development of control technology has an impact on all areas of the control discipline the series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control

the fields of control and robotics are now at an advanced level of maturity both in theory and practice numerous systems are used effectively in industrial production and other sectors of modern life this volume contains a well balanced collection of over fifty papers focusing on analysis and design problems the current trends and advances in the fields are reflected topics covered include system analysis identification and stability optimal adaptive robust and qft controller design design and application of driving simulators industrial robots and telemanipulators mobile service and legged robots virtual reality in robotics the book brings together important original results derived from a variety of academic and engineering environments also it serves as a timely reference volume for the researcher and practitioner

introduction to research methodology research design sample design methods of data collection levels of measurement and scaling processing of data hypotheses analysis of variance chi square test research report and presentation computer application in research

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

using a pedagogical style along with detailed proofs and illustrative examples this book opens a view to the largely unexplored area of nonlinear systems with uncertainties the focus is on adaptive nonlinear control results introduced with the new recursive design methodology adaptive backstepping describes basic tools for nonadaptive backstepping design with state and output feedbacks

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