

Jürgen Ackermann

*in co-operation with Andrew Bartlett, Dieter Kaesbauer,
Wolfgang Sienel and Reinhold Steinhauser*

Robust Control

**Systems with Uncertain
Physical Parameters**



Springer-Verlag

Robust Control Systems With Uncertain Physical Parameters

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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** Jürgen Ackermann, 2014-10-03 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** Jürgen Ackermann, Andrew Bartlett, 1993-01-01

The Control Handbook William S. Levine, 1996-02-23 This is the biggest most comprehensive and most prestigious compilation of articles on control systems imaginable Every aspect of control is expertly covered from the mathematical foundations to applications in robot and manipulator control Never before has such a massive amount of authoritative detailed accurate and well organized information been available in a single volume Absolutely everyone working in any aspect of systems and controls must have this book **Robust Control** Jürgen Ackermann, 1993 **Robust Control Systems with Genetic Algorithms** Mo Jamshidi, Renato A. Krohling, Leandro dos S. Coelho, Peter J. Fleming, 2018-10-03 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 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

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Control System Applications

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Mechatronics '98 J. Adolfsson, J. Karlén, De Montfort University, 1998-08-28 Mechatronics a synergistic combination of mechanical electronic and computing engineering technologies is a truly multidisciplinary approach to engineering New products based on mechatronic principles are demonstrating reduced mechanical complexity increased performance and often previously impossible capabilities This book contains the papers presented at the UK Mechatronics Forum's 6th International Conference held in Skövde Sweden in September 1998 Many of these high quality papers illustrate the tremendous influence of mechatronics on such areas as manufacturing machinery automotive engineering textiles manufacture robotics and real time control and vision systems There are also papers describing developments in sensors actuators control and data processing techniques such as fuzzy logic and neural networks all of which have practical application to mechatronic systems

Numerical Methods for Linear Control Systems Biswa Datta, 2004-02-24 Numerical Methods for Linear Control Systems Design and Analysis is an interdisciplinary textbook aimed at systematic descriptions and implementations of numerically viable algorithms based on well established efficient and stable modern numerical linear techniques for mathematical problems arising in the design and analysis of linear control systems both for the first and second order models Unique coverage of modern mathematical concepts such as parallel computations second order systems and large scale solutions Background material in linear algebra numerical linear algebra and control theory included in text Step by step explanations of the algorithms and examples

European Control Conference 1993, 1993-06-28 Proceedings of the European Control Conference 1993 Groningen Netherlands June 28 July 1 1993

Mathematical Systems Theory I Diederich Hinrichsen, Anthony J. Pritchard, 2011-08-03 This book presents the mathematical foundations of systems theory in a self contained comprehensive detailed and mathematically rigorous way It is devoted to the analysis of dynamical systems and combines features of a detailed introductory textbook with that of a reference source The book contains many examples and figures illustrating the text which help to bring out the intuitive ideas behind the mathematical constructions

Proceedings of the Estonian Academy of Sciences, Physics and Mathematics, 2006-06

Constructive Nonlinear Control R. Sepulchre, M. Jankovic, P.V. Kokotovic, 2012-12-06

Constructive Nonlinear Control presents a broad repertoire of constructive nonlinear designs not available in other works by widening the class of systems and design tools Several streams of nonlinear control theory are merged and directed towards a constructive solution of the feedback stabilization problem Analysis geometric and asymptotic concepts are assembled as design tools for a wide variety of nonlinear phenomena and structures Geometry serves as a guide for the construction of design procedures whilst analysis provides the robustness which geometry lacks New recursive designs remove earlier restrictions on feedback passivation Recursive Lyapunov designs for feedback feedforward and interlaced structures result in feedback systems with optimality properties and stability margins The design oriented approach will make this work a valuable tool for all those who have an interest in control theory

Adaptive Control Rogelio Lozano, 2012-12-06 Adaptive Control provides techniques for automatic real time adjustments in controller parameters with a view to achieving and or maintaining a desirable level of system performance in the presence of unknown or variable process parameters Many aspects of the field are dealt with in coherent and orderly fashion starting with the problems posed by system uncertainties and moving on to the presentation of solutions and their practical significance Within the general context of recent developments the book looks at synthesis and analysis of parameter adaptation algorithms recursive plant model identification in open and closed loop robust digital control for adaptive control direct and indirect adaptive control and practical aspects and applications To reflect the importance of digital computers for the application of adaptive control techniques discrete time aspects are emphasized To guide the reader the book contains various applications of adaptive control techniques

Fundamental Limitations in Filtering and Control Maria M. Seron, Julio H. Braslavsky, Graham C. Goodwin, 2012-12-06 This book deals with the issue of fundamental limitations in filtering and control system design This issue lies at the very heart of feedback theory since it reveals what is achievable and conversely what is not achievable in feedback systems The subject has a rich history beginning with the seminal work of Bode during the 1940 s and as subsequently published in his well known book *Feedback Amplifier Design* Van Nostrand 1945 An interesting fact is that although Bode s book is now fifty years old it is still extensively quoted This is supported by a science citation count which remains comparable with the best contemporary texts on control theory Interpretations of Bode s results in the context of control system design were provided by Horowitz in the 1960 s For example it has been shown that for single input single output stable open loop systems having relative degree greater than one the integral of the logarithmic sensitivity with respect to frequency is zero This result implies among other things that a reduction in sensitivity in one frequency band is necessarily accompanied by an increase of sensitivity in other frequency bands Although the original results were restricted to open loop stable systems they have been subsequently extended to open loop unstable systems and systems having nonminimum phase zeros

Theory of Robot Control Carlos Canudas de Wit, Bruno Siciliano, Georges Bastin, 2012-12-06 The advent of new high speed microprocessor technology together with the need for high performance robots created substantial

and realistic place for control theory in the field of robotics Since the beginning of the 80 s robotics and control theory have greatly benefited from a mutual fertilization On one hand robot models inherently highly nonlinear have been used as good case studies for exemplifying general concepts of analysis and design of advanced control theory on the other hand robot manipulator by using new control algorithms Fur performance has been improved thermore many interesting robotics problems e g in mobile robots have brought new control theory research lines and given rise to the development of new controllers time varying and nonlinear Robots in control are more than a simple case study They represent a natural source of inspiration and a great pedagogical tool for research and teaching in control theory Several advanced control algorithms have been developed for different types of robots rigid flexible and mobile based either on existing control techniques e g feedback linearization and adaptive control or on new control techniques that have been developed on purpose Most of those results although widely spread are nowadays rather dispersed in different journals and conference proceedings The purpose of this book is to collect some of the most fundamental and current results on theory of robot control in a unified framework by editing improving and completing previous works in the area

Intelligent Human Systems Integration 2023 Tareq Ahram, Waldemar Karwowski, Pepetto Di Bucchianico, Redha Taiar, Luca Casarotto and Pietro Costa, 2023-02-22

Proceedings of the 6th International Conference on Intelligent Human Systems Integration IHSI 2023 Integrating People and Intelligent Systems February 22 24 2023 Venice Italy

Optimization and Dynamical Systems Uwe Helmke, John B. Moore, 2012-12-06 This work is aimed at mathematics and engineering graduate students and researchers in the areas of optimization dynamical systems control systems signal processing and linear algebra The motivation for the results developed here arises from advanced engineering applications and the emergence of highly parallel computing machines for tackling such applications The problems solved are those of linear algebra and linear systems theory and include such topics as diagonalizing a symmetric matrix singular value decomposition balanced realizations linear programming sensitivity minimization and eigenvalue assignment by feedback control The tools are those not only of linear algebra and systems theory but also of differential geometry The problems are solved via dynamical systems implementation either in continuous time or discrete time which is ideally suited to distributed parallel processing The problems tackled are indirectly or directly concerned with dynamical systems themselves so there is feedback in that dynamical systems are used to understand and optimize dynamical systems One key to the new research results has been the recent discovery of rather deep existence and uniqueness results for the solution of certain matrix least squares optimization problems in geometric invariant theory These problems as well as many other optimization problems arising in linear algebra and systems theory do not always admit solutions which can be found by algebraic methods

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