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Robust and Adaptive Control

With Aerospace Applications

Second Edition





Robust Adaptive Control

Petros Ioannou, Jing Sun

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Robust Adaptive Control Petros Ioannou, Jing Sun, 2013-09-26 Presented in a tutorial style this comprehensive treatment unifies simplifies and explains most of the techniques for designing and analyzing adaptive control systems Numerous examples clarify procedures and methods 1995 edition Robust and Adaptive Control Eugene Lavretsky, Kevin A. Wise, 2024-02-20 Robust and Adaptive Control second edition shows readers how to produce consistent and accurate controllers that operate in the presence of uncertainties and unforeseen events Driven by aerospace applications the focus of the book is primarily on continuous time dynamical systems. The two part text begins with robust and optimal linear control methods and moves on to a self contained presentation of the design and analysis of model reference adaptive control for nonlinear uncertain dynamical systems Features of the second edition include sufficient conditions for closed loop stability under output feedback observer based loop transfer recovery OBLTR with adaptive augmentation OBLTR applications to aerospace systems case studies that demonstrate the benefits of robust and adaptive control for piloted autonomous and experimental aerial platforms realistic examples and simulation data illustrating key features of the methods described and problem solutions for instructors and MATLAB code provided electronically The theory and practical applications address real life aerospace problems being based on numerous transitions of control theoretic results into operational systems and airborne vehicles drawn from the authors extensive professional experience with The Boeing Company The systems covered are challenging often open loop unstable with uncertainties in their dynamics and thus require both persistently reliable control and the ability to track commands either from a pilot or a quidance computer Readers should have a basic understanding of root locus Bode diagrams and Nyquist plots as well as linear algebra ordinary differential equations and the use of state space methods in analysis and modeling of dynamical systems. The second edition contains a background summary of linear systems and control systems and an introduction to state observers and output feedback control helping to make it self contained Robust and Adaptive Control teaches senior undergraduate and graduate students how to construct stable and predictable control algorithms for realistic industrial applications Practicing engineers and academic researchers will also find the book of great instructional value The solutions manual can be accessed by instructors who have adopted this book for their courses at https sites google com springernature com extramaterial lecturer material To find the electronic supplementary material go to the publisher's website at https link springer com book 10 1007 978 3 031 38314 4 Please go to the Table of contents to the chapter page linked through the title Introduction for ESM related to the chapters in Part I and to the chapter page linked through the title Direct Model Reference Adaptive Control Motivation and Introduction for ESM related to Part II The download link is in the column of links to the right of the page under the book cover thumbnail

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performance This original methodology builds on foundational ideas such as the use of a deadzone in the update law and nonlinear damping in the controller and advances the tools for and the theory behind designing robust adaptive controllers thus guaranteeing robustness properties stronger than previously achieved The authors present all stability notions old and new that are useful in adaptive control provide numerous examples and contrast their analysis to landmark approaches to robustification of adaptive controllers in prior literature This book develops the Deadzone Adapted Disturbance Suppression DADS control a novel adaptive control method and constructs a novel robust identifier that can work in parallel with every direct adaptive controller not only DADS it presents a wing rock instability application of DADS and provides ideas for the extension of DADS to cases not studied in the book Robust Adaptive Control Deadzone Adapted Disturbance Suppression will be of interest to mathematicians working on feedback control and stability theory and to control engineers Physicists tackling control problems and biologists with an interest in controlling population dynamics will also find it of interest 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

Adaptive Robust Control Systems Anh Tuan Le, 2018-03-07 This book focuses on the applications of robust and adaptive control approaches to practical systems. The proposed control systems hold two important features 1. The system is robust with the variation in plant parameters and disturbances 2 The system adapts to parametric uncertainties even in the unknown plant structure by self training and self estimating the unknown factors The various kinds of robust adaptive controls represented in this book are composed of sliding mode control model reference adaptive control gain scheduling H infinity model predictive control fuzzy logic neural networks machine learning and so on The control objects are very abundant from cranes aircrafts and wind turbines to automobile medical and sport machines combustion engines and electrical machines **Robust Adaptive Control**,1991 Adaptive Robust Control Systems Le Anh Tuan, 2018 This book focuses on the applications of robust and adaptive control approaches to practical systems. The proposed control systems hold two important features 1 The system is robust with the variation in plant parameters and disturbances 2 The system adapts to parametric uncertainties even in the unknown plant structure by self training and self estimating the unknown factors The various kinds of robust adaptive controls represented in this book are composed of sliding mode control model reference adaptive control gain scheduling H infinity model predictive control fuzzy logic neural networks machine learning and so on The control objects are very abundant from cranes aircrafts and wind turbines to automobile medical and sport machines combustion engines and electrical machines **Design of Robust Adaptive Control Systems** Qing Song,1991

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Adaptive Control Using a Universal Approximator with Application to Vehicle Motion Control for IVHS Hyeongcheol Lee, 1997 Robust Adaptive Control for Fractional-Order Systems with Disturbance and Saturation Mou Chen, Shuyi Shao, Peng Shi, 2017-12-26 A treatise on investigating tracking control and synchronization control of fractional order nonlinear systems with system uncertainties external disturbance and input saturation Robust Adaptive Control for Fractional Order Systems with Disturbance and Saturation provides the reader with a good understanding on how to achieve tracking control and synchronization control of fractional order nonlinear systems with system uncertainties external disturbance and input saturation Although some texts have touched upon control of fractional order systems the issues of input saturation and disturbances have rarely been considered together This book offers chapter coverage of fractional calculus and fractional order systems fractional order PID controller and fractional order disturbance observer design of fractional order controllers for nonlinear chaotic systems and some applications sliding mode control for fractional order nonlinear systems based on disturbance observer disturbance observer based neural control for an uncertain fractional order rotational mechanical system adaptive neural tracking control for uncertain fractional order chaotic systems subject to input saturation and disturbance stabilization control of continuous time fractional positive systems based on disturbance observer sliding mode synchronization control for fractional order chaotic systems with disturbance and more Based on the approximation ability of the neural network NN the adaptive neural control schemes are reported for uncertain fractional order nonlinear systems Covers the disturbance estimation techniques that have been developed to alleviate the restriction faced by traditional feedforward control and reject the effect of external disturbances for uncertain fractional order nonlinear systems By combining the NN with the disturbance observer the disturbance observer based adaptive neural control schemes have been studied for uncertain fractional order nonlinear systems with unknown disturbances Considers together the issue of input saturation and the disturbance for the control of fractional order nonlinear systems in the present of system uncertainty external disturbance and input saturation Robust Adaptive Control for Fractional Order Systems with Disturbance and Saturation can be used as a reference for the academic research on fractional order nonlinear systems or used in Ph D study of control theory and engineering **Robust Adaptive Control Design Techniques** Gary Allen Strongly Robust Adaptive Control: the Strong Robustness Approach Maria Cadic, 2003 McGraw,1989 Robust Adaptive Control Le Quyet Thang, Bořivoj Hanuš, České vysoké učení technické v Praze, 1991 **Robust Adaptive Control** Hubert Cantalloube, Ye Fu, 1989 Compared with fixed control techniques such as H sp infty optimization the adaptive control is shown to have at least a wider range of use but lower performances **\$ C \infty \$ Robust Adaptive Control** Chujen Lin,1996 Robust Adaptive Control: Stability and Asymptotic Performance James M. Krause, Pramod P. Khargonekar, Gunter Stein, HONEYWELL SYSTEMS AND RESEARCH CENTER MINNEAPOLIS MN., 1990 Systems containing both compact real parametric uncertainty and frequency weighted bounded operator uncertainty are addressed It is shown

that any parameter adaptive control system is robustly stable provided only that 1 the unknown parameters lie in a known compact convex set 2 the control design rule is lipschitzian 3 the control design rule would produce a robust controller if given perfect parameter information and 4 a specified robust parameter estimation algorithm is applied in lieu of perfect parameter information It is also shown that the asymptotic robust performance level may be arbitrarily close to that of the non adaptive design which would result from perfect parameter information Keywords Mathematical matrices Robust adaptor control Asymptotic robust performance KT *Towards a performance theory of robust adaptive control* Ahmad Sanei,2003 **Robust Adaptive Control Schemes** Arvin Dehghani,2007

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