



Adaptive Control Systems

Gang Tao, Petar V. Kokotovic



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Adaptive Control Karl J. Åström, Björn

Wittenmark,2013-04-26 Suitable for advanced undergraduates and graduate students this overview introduces theoretical and practical aspects of adaptive control with emphasis on deterministic and stochastic viewpoints 1995 edition

Applications of Adaptive Control Kumpati S. Narendra,2012-12-02 Control Applications of Adaptive covers the proceedings of the 197 Workshop on Applications of Adaptive Control held in Yale University This book is organized into five parts encompassing 18 chapters that summarize the potential application of adaptive control to many practical problems Part I contains tutorials that bring together important results in two of the most studied approaches to adaptive control namely self tuning regulators and model reference adaptive control MRAC with a particular emphasis on the importance of error models in the stability analysis of MRAC Part II examines the algorithms used for adaptive signal processing while Part III describes the types of power systems problems that could benefit from application of adaptive control and how to apply adaptive control algorithms for controlling large electric generators Part IV highlights adaptive control in aircraft systems This part also considers how adaptive control fell into disfavor in the flight control community illustrating the existence of residual negative bias The desirability of cost elimination of air data sensors in less sophisticated flight control systems is also discussed Part V addresses the application of process control to chemical processes and to electromechanical systems This part also shows the robustness and superior tracking and regulation properties of model reference adaptive control applied to liquid level control Discussion on various classes of model reference adaptive controllers in a common framework from the viewpoint of microcomputer implementation is also included This book will be of value to control system theorists and practitioners

Adaptive Control Systems Rolf Isermann,Karl-Heinz Lachmann,Drago Matko,1992 This book describes the state of the art of adaptive control in particular with regard to realization with digital process computers microcomputers and personal computers It presents the fundamental principles through the design steps theoretical analysis simulation studies comparison software and hardware realization to real applications

Adaptive Control Systems LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF.,1963 The application of adaptive control systems to communications systems automatic reconnaissance techniques detection of weak signals in noise and reliability enhancement are the areas of interest emphasized in this annotated bibliography The references included in the body of this work are concerned with time varying systems self optimizing control systems predictive adaptive controls optimizing control systems self learning systems adaptive principles automatic optimizers adaptive servomechanisms and extremum control The abstracted journal articles and reports cover the period 1960 July 1963 Author

Adaptive Control Systems Chalam,1987-04-29

Adaptive Control for Partially Known Systems Carlos A. Canudas de Wit,1988 Adaptive control has been considered as an alternative in designing high performance control systems from the beginning of the 1950s Since then most of the adaptive control schemes have been formulated either in the continuous time or in the discrete time framework Both approaches commonly use black box models for describing the process to be controlled models with known structure but

unknown parameters These models have the advantage that they are general but also the disadvantage that many parameters have to be estimated There are in practice however many adaptive problems where the system can be described as partially known in the sense that part of the system dynamics is known and another part unknown This is the kind of system considered in this book Most of the adaptive algorithms that are reliable in the sense that they guarantee closed loop stability and some performance behaviour require to a certain extent some system knowledge and a checking procedure for the caution update of the parameter estimates Adaptive Control Systems, 1961 **Adaptive Control** Dianwei Qian, 2018-03 Adaptive control is the control method used by a controller which must adapt to a controlled system with parameters which vary or are initially uncertain An adaptive control system utilizes on line identification of which either system parameter or controller parameter which does not need a priori information about the bounds on these uncertain or time varying parameters These approaches consider their control design in the sense of Lyapunov Besides there are still some branches by combining adaptive control and other control methods i e nonlinear control methods intelligent control methods and predict control methods to name but a few Addresses some original contributions reporting the latest advances in adaptive control It aims to gather the latest research on state of the art methods applications and research for the adaptive control theory and recent new findings obtained by the technique of adaptive control Apparently the book cannot include all research topics Different aspects of adaptive control are explored Chapters includes some new tendencies and developments in research on a adaptive formation controller for multi robot systems L1 adaptive control design of the the longitudinal dynamics of a hypersonic vehicle model adaptive high gain control of biologically inspired receptor systems adaptive residual vibration suppression of sigid flexible coupled systems neuro hierarchical sliding mode control for under actuated mechanical systems neural network adaptive PID control design based on PLC for a water level system and fuzzy based design of networked control systems with random time delays and packet dropout in the forward communication channel

Nonlinear and Adaptive Control Systems Zhengato Ding, 2013 Adaptive Control of Systems with Actuator and Sensor Nonlinearities Gang Tao, Petar V. Kokotovic, 1996-05-23 The authors present an effective approach to handle some of the most common types of component imperfections encountered in industrial automation consumer electronics and defence and transportation systems Adaptive Control of Nonsmooth Dynamic Systems Gang Tao, Frank L. Lewis, 2013-04-17 A complete reference to adaptive control of systems with nonsmooth industrial nonlinearities such as backlash dead zones component failure friction hysteresis saturation and time delays Actuator nonlinearities are ubiquitous in engineering practice and limit control system performance While standard feedback control alone cannot handle these nonsmooth nonlinearities effectively this book shows how such nonlinear characteristics can be compensated for by using adaptive and intelligent control techniques This allows desired system performance to be achieved in the presence of uncertain nonlinearities With surveys of literature and summaries of various design methods the contributors present new solutions to

some important issues in adaptive control of systems with various sorts of nonsmooth nonlinearities The book motivates more research activities in the field of adaptive control of nonsmooth nonlinear industrial systems by formulating several challenging open problems in related areas

Adaptive Control Systems Gang Feng, Rogelio Lozano, 1999-05-10 Adaptive control is no longer just an important theoretical field of study but is also providing solutions to real world problems Adaptive techniques will transform the world of control The leading world practitioners of adaptive control have contributed to this handbook which is the most important work yet in this field Not only are techniques described in theory but detailed control algorithms are given making this a practical cookbook of adaptive control for both control professionals and practising engineers The book presents the most advanced techniques and algorithms of adaptive control These include various robust techniques performance enhancement techniques techniques with less a priori knowledge nonlinear adaptive control techniques and intelligent adaptive techniques Each technique described has been developed to provide a practical solution to a real life problem This volume will therefore not only advance the field of adaptive control as an area of study but will also show how the potential of this technology can be realised and offer significant benefits Practical cookbook of adaptive control Contains important research

A CLASS OF ADAPTIVE CONTROL SYSTEMS WITH SINUSOIDAL PARAMETER PERTURBATION., 1961 Research concerns the development of analysis methods and their application to a class of adaptive control systems The analysis of the slow system it is observed is relatively easy to perform because of the nature of the system and because of the resulting simplifications which can be made In the analysis of the fast system however these assumptions were not applicable and a new analysis method had to be devised The analysis methods presented are adequately suited to this class of adaptive control systems with respect to specifying the nature of the error signal the performance criterion Once this error signal is specified conventional techniques may be used to evaluate system stability and performance Author

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

Adaptive Control of Systems with Actuator Failures Gang Tao, 2004-04-02 This book shows readers new ways to compensate for disturbances in control systems prolonging the intervals between time consuming and or expensive fault diagnosis procedures keeping them up to date in the increasingly important field of adaptive control

Theory of Self-Adaptive Control Systems P. H. Hammond, 2013-11-11 **Adaptive control** Yoan D. Landau, 1979

Microprocessor-Based Control Systems N.K. Sinha, 1986-06-30 Recent advances in LSI technology and the consequent availability of inexpensive but powerful microprocessors have already affected the process control industry in a significant manner. Microprocessors are being increasingly utilized for improving the performance of control systems and making them more sophisticated as well as reliable. Many concepts of adaptive and learning control theory which were considered impractical only 20 years ago are now being implemented. With these developments there has been a steady growth in hardware and software tools to support the microprocessor in its complex tasks. With the current trend of using several microprocessors for performing the complex tasks in a modern control system, a great deal of emphasis is being given to the topic of the transfer and sharing of information between them. Thus the subject of local area networking in the industrial environment has become assumed great importance. The object of this book is to present both hardware and software concepts that are important in the development of microprocessor based control systems. An attempt has been made to obtain a balance between theory and practice with emphasis on practical applications. It should be useful for both practicing engineers and students who are interested in learning the practical details of the implementation of microprocessor based control systems. As some of the related material has been published in the earlier volumes of this series, duplication has been avoided as far as possible.

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