

Cheng-Ching Yu

Autotuning of PID Controllers

A Relay Feedback Approach

2nd Edition



Springer

Autotuning Of Pid Controllers Relay Feedback Approach Advances In Industrial Control

Igor Boiko



Autotuning Of Pid Controllers Relay Feedback Approach Advances In Industrial Control:

Autotuning of PID Controllers Cheng-Ching Yu, 2013-04-17 Recognising the benefits of improved control this book aims to provide simple and yet effective methods of improving controller performance It bridges the gap between the conventional tuning practice and new generations of autotuning methods Practical issues facing controller tuning are treated such as measurement noises process nonlinearity load disturbances and multivariable interaction and tools are also given Numerous worked examples and case studies are used to illustrate the autotuning procedure and MATLAB programs to execute autotuning steps are given This book is intended to be an independent learning tool and is particularly invaluable to practitioners and scientist as well as graduate and undergraduate students The reader will therefore find it useful particularly as it is applicable to engineering practice *Linear Feedback Control* Dingyu Xue, YangQuan Chen, Derek P. Atherton, 2007-01-01 This book discusses analysis and design techniques for linear feedback control systems using MATLAB software By reducing the mathematics increasing MATLAB working examples and inserting short scripts and plots within the text the authors have created a resource suitable for almost any type of user The book begins with a summary of the properties of linear systems and addresses modeling and model reduction issues In the subsequent chapters on analysis the authors introduce time domain complex plane and frequency domain techniques Their coverage of design includes discussions on model based controller designs PID controllers and robust control designs A unique aspect of the book is its inclusion of a chapter on fractional order controllers which are useful in control engineering practice Structure and Synthesis of PID Controllers Aniruddha Datta, Ming-Tzu Ho, Shankar P. Bhattacharyya, 2013-03-14 In many industrial applications the existing constraints mandate the use of controllers of low and fixed order while typically modern methods of optimal control produce high order controllers The authors seek to start to bridge the resultant gap and present a novel methodology for the design of low order controllers such as those of the P PI and PID types Written in a self contained and tutorial fashion this book first develops a fundamental result generalizing a classical stability theorem the Hermite Biehler Theorem and then applies it to designing controllers that are widely used in industry It contains material on current techniques for PID controller design stabilization of linear time invariant plants using PID controllers optimal design with PID controllers robust and non fragile PID controller design stabilization of first order systems with time delay constant gain stabilization with desired damping constant gain stabilization of discrete time plants *Autotuning of PID Controllers* Cheng-Ching Yu, 2006-05-11 Recognising the benefits of improved control the second edition of *Autotuning of PID Controllers* provides simple yet effective methods for improving PID controller performance The practical issues of controller tuning are examined using numerous worked examples and case studies in association with specially written autotuning MATLAB programs to bridge the gap between conventional tuning practice and novel autotuning methods The extensively revised second edition covers Derivation of analytical expressions for relay feedback responses Shapes of relay responses and

improved closed loop control and performance assessment Autotuning for handling process nonlinearity in multiple model based cases The impact of imperfect actuators on controller performance This book is more than just a monograph it is an independent learning tool applicable to the work of academic control engineers and of their counterparts in industry looking for more effective process control and automation *Handbook of PI and PID Controller Tuning Rules* Aidan O'Dwyer, 2009 The vast majority of automatic controllers used to compensate industrial processes are PI or PID type This book comprehensively compiles using a unified notation tuning rules for these controllers proposed from 1935 to 2008 The tuning rules are carefully categorized and application information about each rule is given The book discusses controller architecture and process modeling issues as well as the performance and robustness of loops compensated with PI or PID controllers This unique publication brings together in an easy to use format material previously published in a large number of papers and books This wholly revised third edition extends the presentation of PI and PID controller tuning rules for single variable processes with time delays to include additional rules compiled since the second edition was published in 2006

Fractional Order Motion Controls ,2012-11-07 Covering fractional order theory simulation and experiments this book explains how fractional order modelling and fractional order controller design compares favourably with traditional velocity and position control systems The authors systematically compare the two approaches using applied fractional calculus Stability theory in fractional order controllers design is also analysed Presents material suitable for a variety of real world applications including hard disk drives vehicular controls robot control and micropositioners in DNA microarray analysis Includes extensive experimental results from both lab bench level tests and industrial level mass production ready implementations Covers detailed derivations and numerical simulations for each case Discusses feasible design specifications ideal for practicing engineers The book also covers key topics including fractional order disturbance cancellation and adaptive learning control studies for external disturbances optimization approaches for nonlinear system control and design schemes with backlash and friction Illustrations and experimental validations are included for each of the proposed control schemes to enable readers to develop a clear understanding of the approaches covered and move on to apply them in real world scenarios **American Book Publishing Record** R.R. Bowker Company, 1978 *Non-parametric Tuning of PID Controllers* Igor Boiko, 2012-08-22 The relay feedback test RFT has become a popular and efficient in process identification and automatic controller tuning Non parametric Tuning of PID Controllers couples new modifications of classical RFT with application specific optimal tuning rules to form a non parametric method of test and tuning Test and tuning are coordinated through a set of common parameters so that a PID controller can obtain the desired gain or phase margins in a system exactly even with unknown process dynamics The concept of process specific optimal tuning rules in the nonparametric setup with corresponding tuning rules for flow level pressure and temperature control loops is presented in the text Common problems of tuning accuracy based on parametric and non parametric approaches are addressed In addition the text treats

the parametric approach to tuning based on the modified RFT approach and the exact model of oscillations in the system under test using the locus of a perturbed relay system LPRS method Industrial loop tuning for distributed control systems using modified RFT is also described Many of the problems of tuning rules optimization and identification with modified RFT are accompanied by MATLAB code downloadable from <http://extras.springer.com> 978 1 4471 4464 9 to allow the reader to duplicate the results Non parametric Tuning of PID Controllers is written for readers with previous knowledge of linear control and will be of interest to academic control researchers and graduate students and to practitioners working in a variety of chemical mechanical and process engineering related industries

Intelligent Systems in Cybernetics and Automation Theory Radek Silhavy, Roman Senkerik, Zuzana Kominkova Oplatkova, Zdenka Prokopova, Petr Silhavy, 2015-04-24 This volume is based on the research papers presented in the 4th Computer Science On line Conference

The volume Intelligent Systems in Cybernetics and Automation Control Theory presents new approaches and methods to real world problems and in particular exploratory research that describes novel approaches in the field of cybernetics and automation control theory Particular emphasis is laid on modern trends in selected fields of interest New algorithms or methods in a variety of fields are also presented The Computer Science On line Conference CSOC2015 is intended to provide an international forum for discussions on the latest high quality research results in all areas related to Computer Science The addressed topics are the theoretical aspects and applications of Computer Science Artificial Intelligences Cybernetics Automation Control Theory and Software Engineering

Advances in Instrumentation and Control, 1992 **Irish Signals and Systems Conference**, 2006 **Advances in Instrumentation**, 1988 Proceedings of the ISA Conference and Exhibit

Advances in PID Control Kok K. Tan, Qing-Guo Wang, Chang C. Hang, 2012-12-06 Recently a great deal of effort has been dedicated to capitalising on advances in mathematical control theory in conjunction with tried and tested classical control structures particularly with regard to the enhanced robustness and tighter control of modern PID controllers Much of the research in this field and that of the operational autonomy of PID controllers has already been translated into useful new functions for industrial controllers This book covers the important knowledge relating to the background application and design of and advances in PID controllers in a unified and comprehensive treatment including Evolution and components of PID controllers Classical and Modern PID controller design Automatic Tuning Multi loop Control Practical issues concerned with PID control The book is intended to be useful to a wide spectrum of readers interested in PID control ranging from practising technicians and engineers to graduate and undergraduate students

Advances in Modelling & Simulation, 1991 **2005 IEEE International Symposium on Intelligent Control & 13th Mediterranean Conference on Control and Automation**, 2005 Process Control and Management P.L. Lee, R.B. Newell, I.T. Cameron, 1998 The purpose of this book is to provide a balanced introduction to process control and management aimed at the general process engineer Rapid changes have occurred in process control over the past decade mainly because of the deployment of robust and effective digital

control equipment and the development of the models which underpin the area. Historically process control was seen as simply the maintenance of particular process variables at appropriate setpoints. This very narrow view has been superseded by the view that process control involves the regulation of any given process in the context of a complete processing plant to maximise the economic return from the plant. This wider definition brings into play a range of control regimes from basic regulatory control through advanced regulatory control to complex process management. The organization of the book reflects this hierarchy and is thus split into 3 parts covering basic regulatory control, advanced process control and finally process management. The book is completed by the inclusion of several useful appendices covering mathematical modelling, process optimisation and simulation.

Relay Tuning of PID Controllers M. Chidambaram, Nikita Saxena, 2018-02-09. This book presents comprehensive information on the relay auto tuning method for unstable systems in process control industries and introduces a new refined Ziegler Nichols method for designing controllers for unstable systems. The relay auto tuning method is intended to assist graduate students in chemical, electrical, electronics and instrumentation engineering who are engaged in advanced process control. The book's main focus is on developing a controller tuning method for scalar and multivariable systems, particularly for unstable processes. It proposes a much simpler technique avoiding the shortcomings of the popular relay tuning method. The effects of higher order harmonics are incorporated owing to the shape of output waveforms. In turn, the book demonstrates the applicability and effectiveness of the Ziegler Nichols method through simulations on a number of linear and non-linear unstable systems, confirming that it delivers better performance and robust stability in the presence of uncertainty. The proposed method can also be easily implemented across industries with the help of various auto tuners available on the market. Offering a professional and modern perspective on profitably and efficiently automating controller tuning, the book will be of interest to graduate students, researchers and industry professionals alike.

Model-Reference Robust Tuning of PID Controllers Victor M. Alfaro, Ramon Vilanova, 2016-04-16. This book presents a unified methodology for the design of PID controllers that encompasses the wide range of different dynamics to be found in industrial processes. This is extended to provide a coherent way of dealing with the tuning of PID controllers. The particular method at the core of the book is the so-called model reference robust tuning (MoReRT) developed by the authors. MoReRT constitutes a novel and powerful way of thinking of a robust design and taking into account the usual design trade-offs encountered in any control design problem. The book starts by presenting the different two-degree-of-freedom PID control algorithm variations and their conversion relations, as well as the indexes used for performance, robustness and fragility evaluation, the bases of the proposed model. Secondly, the MoReRT design methodology and normalized controlled process models and controllers used in the design are described in order to facilitate the formulation of the different design problems and subsequent derivation of tuning rules. In later chapters, the application of MoReRT to over-damped, inverse response, integrating and unstable processes is described. The book ends by presenting three possible extensions of the MoReRT.

methodology thereby opening the door to new research developments In this way the book serves as a reference and source book for academic researchers who may also consider it as a stimulus for new ideas as well as for industrial practitioners and manufacturers of control systems who will find appropriate advanced solutions to many application problems *Chemical Engineering Bibliography (1992-1993)* Martyn S. Ray, 1994 **Adaptive Control Strategies for Industrial Use** Sirish L. Shah, Guy Dumont, 1989-12-11 The objective of this workshop was to bring together engineers from industry and scientists from universities to focus attention on new developments and practical enhancements for using adaptive control in industry The workshop provided a forum for a tutorial introduction to the state of the art in adaptive control and helped focus attention on an in depth view of the problems and needs of adaptive control engineers in industry The volume includes papers concerned with recent theoretical advances in adaptive control experimental application of adaptive control in industry and the role of filters in adaptive control

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