

Cheng-Ching Yu

Autotuning of PID Controllers

A Relay Feedback Approach

2nd Edition



Springer

Autotuning Of Pid Controllers A Relay Feedback Approach

Tao Liu, Furong Gao



Autotuning Of Pid Controllers A Relay Feedback Approach:

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

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

Practical PID Control Antonio Visioli, 2006-11-03 This book focuses on those functionalities that can provide significant improvements in Proportional integral derivative PID performance in combination with parameter tuning In particular the choice of filter to make the controller proper the use of a feedforward action and the selection of an anti windup strategy are addressed The book gives the reader new methods for improving the performance of the most widely applied form of control in industry

Relay Autotuning for Identification and Control

M. Chidambaram, Vivek Sathe, 2014-05-15 Proportional integral derivative PID controllers are extensively used for efficient industrial operations Autotuning such controllers is required for efficient operation There are two ways of relay autotuning cascade control systems simultaneous tuning and sequential tuning This book discusses incorporation of higher order harmonics of relay autotuning for a single loop controller and cascade control systems to get accurate values of controller ultimate gain It provides a simple method of designing P PI controllers for series and parallel cascade control schemes The authors also focus on estimation of model parameters of unstable FOPTD systems stable SOPTD and unstable SOPTDZ systems using a single relay feedback test The methodology and final results explained in this book are useful in tuning controllers The text would be of use to graduate students and researchers for further studies in this area

Industrial Process Identification and

Control Design Tao Liu, Furong Gao, 2011-11-16 Industrial Process Identification and Control Design is devoted to advanced identification and control methods for the operation of continuous time processes both with and without time delay in industrial and chemical engineering practice The simple and practical step or relay feedback test is employed when applying the proposed identification techniques which are classified in terms of common industrial process type open loop stable integrating and unstable respectively Correspondingly control system design and tuning models that follow are presented for single input single output processes Furthermore new two degree of freedom control strategies and cascade control system design methods are explored with reference to independently improving set point tracking and load disturbance rejection Decoupling multi loop and decentralized control techniques for the operation of multiple input multiple output processes are also detailed Perfect tracking of a desire output trajectory is realized using iterative learning control in uncertain industrial batch processes All the proposed methods are presented in an easy to follow style illustrated by examples and practical applications This book will be valuable for researchers in system identification and control theory and will also be of interest to graduate control students from process chemical and electrical engineering backgrounds and to practising control engineers in the process industry

PID Control Michael A Johnson, Mohammad H. Moradi, 2005-12-28 Demand for this book will be generated by the widespread use of PID in industry and because of the modern need for simple control systems to control a wider range of complex industrial processes and systems

Introduction to PID Controllers Rames C. Panda, 2012-02-29 This book discusses the theory application and practice of PID control technology It is designed for engineers researchers students of process control and industry professionals It will also be of interest for those seeking an overview of the subject of green automation who need to procure single loop and multi loop PID controllers and who aim for an exceptional stable and robust closed loop performance through process automation Process modeling controller design and analyses using conventional and heuristic schemes are explained through different applications here The readers should have primary knowledge of transfer functions poles zeros regulation concepts and background The following sections are covered The Theory of PID Controllers and their Design Methods Tuning Criteria Multivariable Systems Automatic Tuning and Adaptation Intelligent PID Control Discrete Intelligent PID Controller Fractional Order PID Controllers Extended Applications of PID and Practical Applications A wide variety of researchers and engineers seeking methods of designing and analyzing controllers will create a heavy demand for this book interdisciplinary researchers real time process developers control engineers instrument technicians and many more entities that are recognizing the value of shifting to PID controller procurement

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

Control Systems Design 2003 (CSD '03) Stefan

Kozak,Mikulas Huba,2004-04 The material presented in this volume represents current ideas knowledge experience and research results in various fields of control system design

Advances in Automation, Signal Processing, Instrumentation, and Control Venkata Lakshmi Narayana Komanapalli,N. Sivakumaran,Santoshkumar

Hampannavar,2021-03-04 This book presents the select proceedings of the International Conference on Automation Signal Processing Instrumentation and Control i CASIC 2020 The book mainly focuses on emerging technologies in electrical systems IoT based instrumentation advanced industrial automation and advanced image and signal processing It also includes studies on the analysis design and implementation of instrumentation systems and high accuracy and energy efficient controllers The contents of this book will be useful for beginners researchers as well as professionals interested in instrumentation and control and other allied fields

Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Autotuning Of Pid Controllers A Relay Feedback Approach**

In some sort of inundated with monitors and the cacophony of instant interaction, the profound power and mental resonance of verbal artistry often fade into obscurity, eclipsed by the constant barrage of sound and distractions. However, set within the musical pages of **Autotuning Of Pid Controllers A Relay Feedback Approach**, a interesting function of literary elegance that impulses with organic thoughts, lies an memorable trip waiting to be embarked upon. Written by a virtuoso wordsmith, this exciting opus books viewers on a psychological odyssey, softly revealing the latent possible and profound affect stuck within the complex internet of language. Within the heart-wrenching expanse of the evocative examination, we can embark upon an introspective exploration of the book is central subjects, dissect its fascinating writing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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