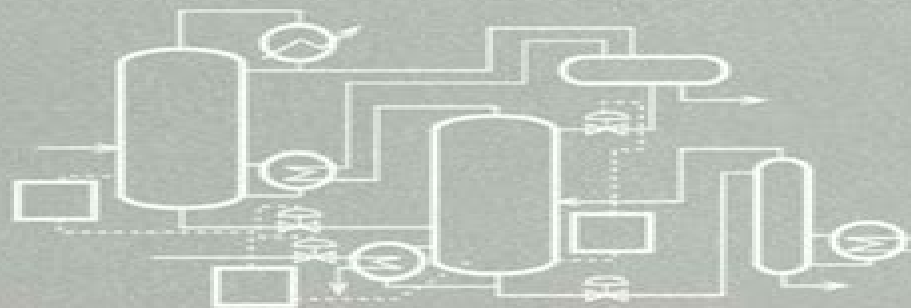


Biao Huang and Sirish L. Shah

PERFORMANCE ASSESSMENT OF CONTROL LOOPS

Theory and Applications



Advances in
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Biao Huang, Sirish L. Shah



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Performance Assessment of Control Loops Biao Huang, Sirish L. Shah, 1999-09-22 The series *Advances in Industrial Control* aims to report and encourage technology transfer in control engineering The rapid development of control technology has an impact on all areas of the control discipline New theory new controllers actuators sensors new industrial processes computer methods new applications new philosophies new challenges Much of this development work resides in industrial reports feasibility study papers and the reports of advanced collaborative projects The series offers an opportunity for researchers to present an extended exposition of such new work in all aspects of industrial control for wider and rapid dissemination Benchmarking is a technique first applied by Rank Xerox in the late 1970s for business processes As a subject in the commercial arena benchmarking thrives with for example a European Benchmarking Forum It has taken rather longer for benchmarking to make the transfer to the technical domain and even now the subject is making a slow headway A key research step in this direction was taken by Harris 1989 who used minimum variance control as a benchmark for controller loop assessment This contribution opened up the area and a significant specialist literature has now developed Significant support for the methodology was given by Honeywell who have controller assessment routines in their process control applications software therefore it is timely to welcome a first monograph on controller performance assessment by Biao Huang and Sirish Shah to the *Advances in Industrial Control* series

Control of Integral Processes with Dead Time

Antonio Visioli, Qingchang Zhong, 2010-11-18 *Control of Integral Processes with Dead Time* provides a unified and coherent review of the various approaches devised for the control of integral processes addressing the problem from different standpoints In particular the book treats the following topics How to tune a PID controller and assess its performance How to design a two degree of freedom control scheme in order to deal with both the set point following and load disturbance rejection tasks How to modify the basic Smith predictor control scheme in order to cope with the presence of an integrator in the process and how to address the presence of large process dead times The methods are presented sequentially highlighting the evolution of their rationale and implementation and thus clearly characterising them from both academic and industrial perspectives

Process Modelling for Control Benoît Codrons, 2005-08-30 Many process control books focus on control design techniques taking the construction of a process model for granted *Process Modelling for Control* concentrates on the modelling steps underlying a successful design answering questions like How should I carry out the identification of my process in order to obtain a good model How can I assess the quality of a model with a view to using it in control design How can I ensure that a controller will stabilise a real process and achieve a pre specified level of performance before implementation What is the most efficient method of order reduction to facilitate the implementation of high order controllers Different tools namely system identification model controller validation and order reduction are studied in a framework with a common basis closed loop identification with a controller that is close to optimal will deliver

models with bias and variance errors ideally tuned for control design As a result rules are derived applying to all the methods that provide the practitioner with a clear way forward despite the apparently unconnected nature of the modelling tools Detailed worked examples representative of various industrial applications are given control of a mechanically flexible structure a chemical process and a nuclear power plant Process Modelling for Control uses mathematics of an intermediate level convenient to researchers with an interest in real applications and to practising control engineers interested in control theory It will enable working control engineers to improve their methods and will provide academics and graduate students with an all round view of recent results in modelling for control Advances in Industrial Control aims to report and encourage the transfer of technology in control engineering The rapid development of control technology has an impact on all areas of the control discipline The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control **22nd European Symposium on Computer Aided Process Engineering** ,2012-12-10

Computer aided process engineering CAPE plays a key design and operations role in the process industries This conference features presentations by CAPE specialists and addresses strategic planning supply chain issues and the increasingly important area of sustainability audits Experts collectively highlight the need for CAPE practitioners to embrace the three components of sustainable development environmental social and economic progress and the role of systematic and sophisticated CAPE tools in delivering these goals Contributions from the international community of researchers and engineers using computing based methods in process engineering Review of the latest developments in process systems engineering Emphasis on a systems approach in tackling industrial and societal grand challenges Dynamic Modeling of Complex Industrial Processes: Data-driven Methods and Application Research Chao Shang,2018-02-22 This thesis develops a systematic data based dynamic modeling framework for industrial processes in keeping with the slowness principle Using said framework as a point of departure it then proposes novel strategies for dealing with control monitoring and quality prediction problems in industrial production contexts The thesis reveals the slowly varying nature of industrial production processes under feedback control and integrates it with process data analytics to offer powerful prior knowledge that gives rise to statistical methods tailored to industrial data It addresses several issues of immediate interest in industrial practice including process monitoring control performance assessment and diagnosis monitoring system design and product quality prediction In particular it proposes a holistic and pragmatic design framework for industrial monitoring systems which delivers effective elimination of false alarms as well as intelligent self running by fully utilizing the information underlying the data One of the strengths of this thesis is its integration of insights from statistics machine learning control theory and engineering to provide a new scheme for industrial process modeling in the era of big data New Approaches in Automation and Robotics Harald Aschemann,2008-05-01 The book New Approaches in Automation and Robotics offers in 22 chapters a collection of recent developments in automation robotics as well as control theory It is dedicated to researchers in

science and industry students and practicing engineers who wish to update and enhance their knowledge on modern methods and innovative applications The authors and editor of this book wish to motivate people especially under graduate students to get involved with the interesting field of robotics and mechatronics We hope that the ideas and concepts presented in this book are useful for your own work and could contribute to problem solving in similar applications as well It is clear however that the wide area of automation and robotics can only be highlighted at several spots but not completely covered by a single book

Diagnosis of Process Nonlinearities and Valve Stiction Ali Ahammad Shoukat Choudhury, Sirish L. Shah, Nina F. Thornhill, 2008-08-20 were published in the series as the contributed volume Process Control Performance Assessment From Theory to Implementation with Andrzej Ordys Damian Uduehi and Michael Johnson as Editors ISBN 978 1 84628 623 0 2007 Along with this good progress in process controller assessment methods researchers have also been investigating techniques to diagnose what is causing the process or control loop degradation This requires the use of on line data to identify faults via new diagnostic indicators of typical process problems A significant focus of some of this research has been the issue of valve problems a research direction that has been motivated by some industrial statistics that show up to 40% of control loops having performance degradation attributable to valve problems Shoukat Choudhury Sirish Shah and Nina Thornhill have been very active in this research field for a number of years and have written a coherent and consistent presentation of their many research results as this monograph Diagnosis of Process Nonlinearities and Valve Stiction The Advances in Industrial Control series is pleased to welcome this new and substantial contribution to the process diagnostic literature The reader will find the exploitation of the extensive process data archives created by today s process computer systems one theme in the monograph From another viewpoint the use of higher order statistics could be considered to provide a continuing link to the earlier methods of the statistical process control paradigm

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

Nonlinear Model-based Process Control Rashid M. Ansari, Moses O. Tade, 2000-04-12 The work in this text entails the development of non linear model based multivariable control algorithms and strategies and their use in an integrated approach to control strategy which incorporates a process model an inferential model and a multi variable control algorithm in one framework

Instrument Engineers' Handbook, Volume Two Bela G. Liptak, 2018-10-08 The latest update to Bela Liptak s acclaimed bible of instrument engineering is now available Retaining the format that made the previous editions bestsellers in their own right the fourth edition of Process Control and Optimization continues the tradition of providing quick and easy access to highly practical information The authors are practicing engineers not theoretical people from

academia and their from the trenches advice has been repeatedly tested in real life applications Expanded coverage includes descriptions of overseas manufacturer s products and concepts model based optimization in control theory new major inventions and innovations in control valves and a full chapter devoted to safety With more than 2000 graphs figures and tables this all inclusive encyclopedic volume replaces an entire library with one authoritative reference The fourth edition brings the content of the previous editions completely up to date incorporates the developments of the last decade and broadens the horizons of the work from an American to a global perspective B la G Lipt k speaks on Post Oil Energy Technology on the AT T Tech Channel The Canadian Journal of Chemical Engineering ,2007-08 Hard Disk Drive Servo Systems Ben M. Chen,Tong Heng Lee,V. Venkatakrishnan,2002-02-20 Provides a systematic treatment of the design of modern hard disk drive servo systems In particular it focuses on the applications of some newly developed results in control theory robust and perfect tracking control and composite non linear feedback control which are suitable for track following and seeking respectively Proceedings of the ... IEEE International Conference on Control Applications ,2005 **AIChE Symposium Series** American Institute of Chemical Engineers,1971 **Chemical Process Control-VI** James Blake Rawlings,Babatunde Ayodeji Ogunnaike,John W. Eaton,2002 CD ROM contains complete contents of this AIChE symposium series volume and an ISO9660 file system with Rock Ridge attributes Chemical Process Control-VI American Institute of Chemical Engineers,2002 *2005 IEEE International Symposium on Intelligent Control & 13th Mediterranean Conference on Control and Automation* ,2005 *Large Scale Systems: Theory and Applications* 1998 N.T. Koussoulas,P.P. Groumpos,1999-06-11 As the 21st century nears there is a need to seriously reconsider many aspects of modeling and controlling large complex man made systems Integration of technologies and functions requires deep interdisciplinary expertise and technical breadth for successful implementation Large scale systems theory can play a central role in this effort and it is a strongly held belief that this approach will continue to be of major importance in the future *Subject Guide to Books in Print* ,2001 *Control Performance Management in Industrial Automation* Mohieddine Jelali,2012-10-30 Control Performance Management in Industrial Automation provides a coherent and self contained treatment of a group of methods and applications of burgeoning importance to the detection and solution of problems with control loops that are vital in maintaining product quality operational safety and efficiency of material and energy consumption in the process industries The monograph deals with all aspects of control performance management CPM from controller assessment minimum variance control based and advanced methods to detection and diagnosis of control loop problems process non linearities oscillations actuator faults to the improvement of control performance maintenance re design of loop components automatic controller re tuning It provides a contribution towards the development and application of completely self contained and automatic methodologies in the field Moreover within this work many CPM tools have been developed that goes far beyond available CPM packages Control Performance Management in Industrial Automation presents a comprehensive review of

control performance assessment methods develops methods and procedures for the detection and diagnosis of the root causes of poor performance in complex control loops covers important issues that arise when applying these assessment and diagnosis methods recommends new approaches and techniques for the optimization of control loop performance based on the results of the control performance stage and offers illustrative examples and industrial case studies drawn from chemicals building mining pulp and paper mineral and metal processing industries This book will be of interest to academic and industrial staff working on control systems design maintenance or optimisation in all process industries

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