



Ranganathan Srinivasan

Control Loop Performance Monitoring -

Stiction Detection and Compensation



Control Loop Performance Monitoring Stiction Detection And Compensation

**International Institution for
Production Engineering Research**

Control Loop Performance Monitoring Stiction Detection And Compensation:

Detection and Diagnosis of Stiction in Control Loops Mohieddine Jelali, Biao Huang, 2009-10-13 In the process industries stiction is the most common performance limiting valve problem and over the last decade numerous different techniques for overcoming it have been proposed. This book represents a comprehensive presentation of these methods including their principles, assumptions, strengths and drawbacks. Guidelines and working procedures are provided for the implementation of each method and MATLAB based software can be downloaded from www.ualberta.ca/bhuang/stiction. Enabling readers to apply the methods to their own data. Methods for the limitation of stiction effects are proposed within the general context of oscillation detection in control loops: stiction detection, diagnosis and stiction quantification and diagnosis of multiple faults. The state of the art algorithms presented in this book are demonstrated and compared in industrial case studies of diverse origin chemicals, building, mining, pulp and paper, mineral and metal processing.

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*. The 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.

Control Performance Management in Industrial

Automation Mohieddine Jelali, 2012-10-31 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 **Process Control System Fault Diagnosis** Ruben Gonzalez,Fei Qi,Biao

Huang,2016-07-21 Process Control System Fault Diagnosis A Bayesian Approach Ruben T Gonzalez University of Alberta Canada Fei Qi Suncor Energy Inc Canada Biao Huang University of Alberta Canada Data driven Inferential Solutions for Control System Fault Diagnosis A typical modern process system consists of hundreds or even thousands of control loops which are overwhelming for plant personnel to monitor The main objectives of this book are to establish a new framework for control system fault diagnosis to synthesize observations of different monitors with a prior knowledge and to pinpoint possible abnormal sources on the basis of Bayesian theory Process Control System Fault Diagnosis A Bayesian Approach consolidates results developed by the authors along with the fundamentals and presents them in a systematic way The book provides a comprehensive coverage of various Bayesian methods for control system fault diagnosis along with a detailed tutorial The book is useful for graduate students and researchers as a monograph and as a reference for state of the art techniques in control system performance monitoring and fault diagnosis Since several self contained practical examples are included in the book it also provides a place for practicing engineers to look for solutions to their daily monitoring and diagnosis problems Key features A comprehensive coverage of Bayesian Inference for control system fault diagnosis Theory and applications are self contained Provides detailed algorithms and sample Matlab codes Theory is illustrated through benchmark simulation examples pilot scale experiments and industrial application Process Control System Fault Diagnosis A Bayesian Approach is a comprehensive guide for graduate students practicing engineers and researchers who are interests in applying theory to practice **Advances in Clean Hydrocarbon Fuel Processing** M. Rashid Khan,2011-09-23

Conventional coal oil and gas resources used worldwide for power production and transportation are limited and unsustainable Research and development into clean alternative hydrocarbon fuels is therefore aimed at improving fuel security through exploring new feedstock conversion techniques improving production efficiency and reducing environmental impacts Advances in clean hydrocarbon fuel processing provides a comprehensive and systematic reference on the range of

alternative conversion processes and technologies Following introductory overviews of the feedstocks environmental issues and life cycle assessment for alternative hydrocarbon fuel processing sections go on to review solid liquid and gaseous fuel conversion Solid fuel coverage includes reviews of liquefaction gasification pyrolysis and biomass catalysis Liquid fuel coverage includes reviews of sulfur removal partial oxidation and hydroconversion Gaseous fuel coverage includes reviews of Fischer Tropsch synthesis methanol and dimethyl ether production water gas shift technology and natural gas hydrate conversion The final section examines environmental degradation issues in fuel processing plants as well as automation advanced process control and process modelling techniques for plant optimisation Written by an international team of expert contributors Advances in clean hydrocarbon fuel processing provides a valuable reference for fuel processing engineers industrial petrochemists and energy professionals as well as for researchers and academics in this field A comprehensive reference on the range of alternative conversion processes and technologies Provides an overview of the feedstocks environmental issues and life cycle assessments for alternative hydrocarbon fuel processing including a review of the key issues in solid liquid and gaseous fuel conversion Examines automation advanced process control and process modelling techniques for plant optimisation *Control Loop Performance Monitoring* - Ranganathan Srinivasan,2010-10 Controller Performance Monitoring involves the following three routine activities 1 monitor the performance of each loop 2 isolate poorly performing loops and 3 diagnose the cause of poor performance A typical processing industry installs several hundreds of control loops to achieve the desired process performance Recent studies reveal that only about one third of controllers provide acceptable performance indicating significant commercial benefits exist in diagnosing and improving the remaining two thirds of the control loops Recent surveys indicate that 20% to 30% of all control loops oscillate due to valve problems caused by static friction also referred as stiction Two different techniques for diagnosing stiction using routine operating data have been proposed The success of these approaches is built on a new technique that detects and characterizes oscillations in control loops An integrated solution strategy to compensate stiction is provided Stiction detection and diagnosis techniques are validated on a large industrial data set *Dissertation Abstracts International* ,2006

Control Loop Performance Monitoring: Modeling, Diagnosing and Compensating Stiction Phenomenon in Process Control Valves Ranganathan Srinivasan,2005 *Chemical Engineering Progress* ,2007 *Proceedings of the ... American Control Conference* ,1998 *Proceedings* ,1997 *Journal of Dynamic Systems, Measurement, and Control* ,2007 *Control Abstracts* ,1967 *CIRP Annals* International Institution for Production Engineering Research,1994 *Electrical & Electronics Abstracts* ,1997 *Guidance and Control* 1985 Robert D. Culp,Edward J. Bauman,Charles A. Cullian,1985 *Guidance and Control* ,1985 *Robomatix Reporter* ,1988 *Science Abstracts* ,1995 *Detection and Compensation for Stiction in Multi-loop Control Systems* Mahdi Alemohammad,2011

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