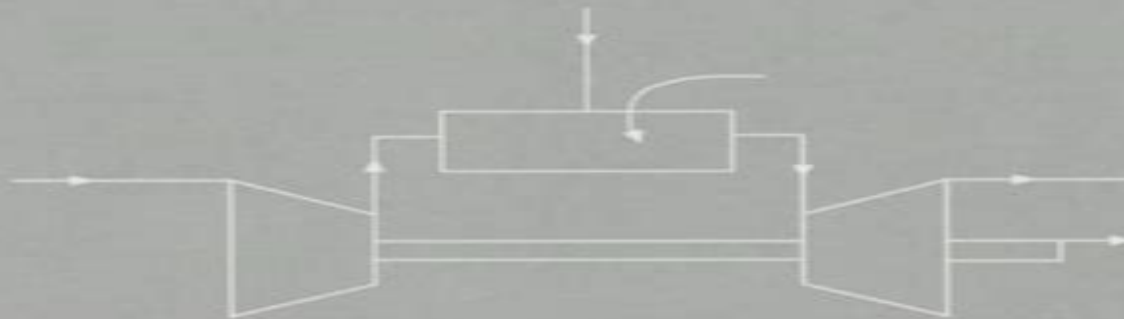


Jan Tommy Gravdahl and Olav Egeland

COMPRESSOR SURGE AND ROTATING STALL

Modeling and Control



Advances in
Industrial Control



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Compressor Surge And Rotating Stall Modeling And Control Advances In Industrial Control

Jan Tommy Gravdahl, Olav Egeland



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Compressor Surge and Rotating Stall Jan Tommy Gravdahl, Olav Egeland, 1998-12-01 *Compressor Surge and Rotating Stall* Jan Tommy Gravdahl, Olav Egeland, 2012-12-06 The series Advances in Industrial Control aims to report and encourage technology transfer in control engineering The rapid development of control technology impacts 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 Operating plant as close as possible to constraint boundaries so often brings economic benefits in industrial process control This is the conundrum at the heart of this monograph by Tommy Gravdahl and Olav Egeland on stall control for compressors Operation of the compressor closer to the surge line can increase operational efficiency and flexibility The approach taken by the authors follows the modern control system paradigm physical understanding detailed modelling and simulation studies and finally control studies The thoroughness of the presentation bibliography and appendices indicates that the volume has all the hallmarks of being a classic for its subject Despite the monograph's narrow technical content the techniques and insights presented should appeal to the wider industrial control community as well as the gas turbine compressor specialist M J Grimble and M A

Dissipative Systems Analysis and Control Rogelio Lozano, Bernard Brogliato, Olav Egeland, Bernhard Maschke, 2013-03-14 This book deals with the analysis and feedback control of dissipative dynamical systems It presents the background of dissipative systems theory Linear as well as nonlinear systems are treated and many examples are given throughout the chapters Some infinite dimensional and non smooth examples are also included The emphasis is put on the application towards the design of stable feedback control laws Then the theory is illustrated on physical examples Lagrangian and Hamiltonian systems are thoroughly studied as well as adaptive control It is shown how the dissipativity properties of a system can be used in the design of stable feedback controllers Some experimental results are presented which corroborate the theoretical developments This monograph is primarily for readers who wish to get acquainted with Dissipative Systems Theory and its uses in Systems and Control and Robotics It constitutes an advanced introduction to the topic and is the first volume ever published which is dedicated entirely to this subject **Dissipative Systems Analysis and Control** Bernard Brogliato, Rogelio Lozano, Bernhard Maschke, Olav Egeland, 2006-11-24 Dissipative Systems Analysis and Control second edition presents a fully revised and expanded treatment of dissipative systems theory constituting a self contained advanced introduction for graduate students researchers and practising engineers It examines linear and nonlinear systems with examples of both in each chapter some infinite dimensional and nonsmooth examples are also included Throughout emphasis is placed on the use of the dissipative properties of a system for the design of stable feedback control laws The theory is

consistently substantiated by experimental results and by reference to its application in illustrative physical cases Lagrangian and Hamiltonian systems and adaptive controllers are covered thoroughly The second edition is substantially reorganized both to accommodate new material and to enhance its pedagogical properties Advances in Asset Management and Condition Monitoring Andrew Ball, Len Gelman, B. K. N. Rao, 2020-08-27 This book gathers select contributions from the 32nd International Congress and Exhibition on Condition Monitoring and Diagnostic Engineering Management COMADEM 2019 held at the University of Huddersfield UK in September 2019 and jointly organized by the University of Huddersfield and COMADEM International The aim of the Congress was to promote awareness of the rapidly emerging interdisciplinary areas of condition monitoring and diagnostic engineering management The contents discuss the latest tools and techniques in the multidisciplinary field of performance monitoring root cause failure modes analysis failure diagnosis prognosis and proactive management of industrial systems There is a special focus on digitally enabled asset management and covers several topics such as condition monitoring maintenance structural health monitoring non destructive testing and other allied areas Bringing together expert contributions from academia and industry this book will be a valuable resource for those interested in latest condition monitoring and asset management techniques **Control of Surge in Centrifugal Compressors by Active Magnetic Bearings** Se Young Yoon, Zongli Lin, Paul E. Allaire, 2012-06-19 Surge Control of Active magnetic bearing suspended Centrifugal Compressors sets out the fundamentals of integrating active magnetic bearing AMB rotor suspension technology in compressor systems and describes how this relatively new bearing technology can be employed in active control of compressor surge initiation The authors provide a self contained and comprehensive review of rotordynamics and the fundamentals of AMB technology The active stabilization of compressor surge employing AMBs in a machine is fully explored from modeling of instability and controller design to the implementation and experimental testing of the control algorithm in a specially constructed industrial size centrifugal compression system The results of these tests demonstrate the great potential of the new surge control method suggested in this text This book will be useful for engineers in industries that involve turbocompressors and magnetic bearings as well as for researchers and graduate students in the field of applied control Whatever their level of experience engineers working in the fields of turbomachinery magnetic bearings rotordynamics and controls will find the material in this book absorbing as all these important aspects of engineering are integrated to create a multi disciplinary solution to a real life industrial problem and the book is a suitable introduction to the area for newcomers *Bounded Dynamic Stochastic Systems* Hong Wang, 2012-12-06 Over the past decades although stochastic system control has been studied intensively within the field of control engineering all the modelling and control strategies developed so far have concentrated on the performance of one or two output properties of the system such as minimum variance control and mean value control The general assumption used in the formulation of modelling and control strategies is that the distribution of the random signals involved is Gaussian In this book a set of new approaches for the

control of the output probability density function of stochastic dynamic systems those subjected to any bounded random inputs has been developed In this context the purpose of control system design becomes the selection of a control signal that makes the shape of the system outputs p d f as close as possible to a given distribution The book contains material on the subjects of Control of single input single output and multiple input multiple output stochastic systems Stable adaptive control of stochastic distributions Model reference adaptive control Control of nonlinear dynamic stochastic systems Condition monitoring of bounded stochastic distributions Control algorithm design Singular stochastic systems A new representation of dynamic stochastic systems is produced by using B spline functions to describe the output p d f 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

Optimisation of Industrial Processes at

Supervisory Level Doris A. Saez,Aldo Cipriano,Andrzej W. Ordys,2012-12-06 In the increasingly competitive modern world the industrial sector faces new challenges such as improving productivity and reducing costs while taking into account the process operational constraints As energy demand increases in many countries especially in big cities where the environmental concerns are very important and resources to produce energy are limited the efficiency of operation of power plants becomes of paramount importance Under this scenario this book presents new methodologies to improve power plants efficiency by using automatic control algorithms This will lead to an improvement in the generation of companies profit and also in the quality of their final product

Applied Predictive Control Sunan Huang,Tong Heng Lee,2013-03-09 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 The Advances in Industrial Control series promotes control techniques which are used by industry The series has useful volumes in various aspects of proportional integral derivative PID control because of the widespread use of PID in applications Predictive control is another technique that quickly became essential in some sectors of the petro chemical and process control industries It was the ability of the method to incorporate operational constraints that lead to this take up by industry The wider industrial applications of predictive control has been slower to develop indeed some practitioners might argue that this technology transfer step is still active or had only just begun in some industrial sectors

Precision Motion Control Kok K. Tan,Tong H. Lee,Huifang Dou,Sunan Huang,2013-04-17 Precision manufacturing is a development that has been gathering momentum over the last century and accelerating over the last 25

years in terms of research development and application to product innovation. The driving force in this development arises from requirements for much higher performance of products: higher reliability, longer life, lower cost, and miniaturization. This development is widely known as precision engineering, and today it is generally defined as manufacturing to tolerances which are better than one part in 10⁵. Applications are abundant and can be found in various semiconductor processes, e.g., lithography, wafer probing, inspection, Coordinate Measuring Machines (CMMs), and precision metrology systems, e.g., Scanning Probe Microscopy (SPM) and robot machine tools to carry out micro assembly, e.g., MEMS and delicate short wavelength laser processes. As an enabling technology for precision engineering, precision instrumentation and measurement, geometrical calibration and compensation, and motion control are directly important issues to be addressed in the overall system design and realization. This book is focused on these aspects of precision engineering. It is a compilation of the major results and publications from a major project which developed a state-of-the-art high-speed ultra-precision robotic system. A comprehensive and thorough treatment of the subject matter is provided in a manner that is amenable to a broad base of readers ranging from the academics to the practitioners by providing detailed experimental verifications of the developed materials.

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