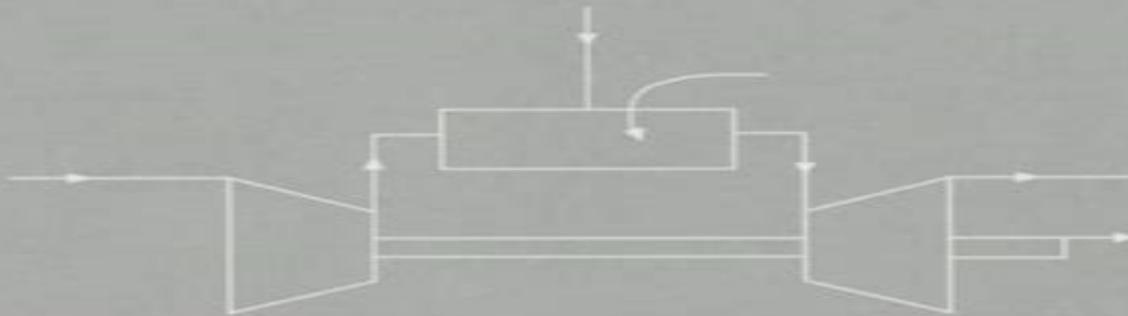


Jan Tommy Gravdahl and Olav Egeland

COMPRESSOR SURGE AND ROTATING STALL

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Comprebor Surge And Rotating Stall Modeling And Control

Rashid M. Ansari, Moses O. Tade



Compressor Surge And Rotating Stall Modeling And Control:

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

Compressor Surge and Rotating Stall Jan Tommy Gravdahl, Olav Egeland, 1998-12-01 *An Overview of Rotating Stall and Surge Control for Axial Flow Compressors*, 1995 Modeling and control for axial flow compression systems have received great attention in recent years. The objectives are to suppress rotating stall and surge to extend the stable operating range of the compressor system and/or to enlarge domains of attraction of stable equilibria using feedback control methods. The success of this research field will significantly improve compressor efficiency and thus future aeroengine performance. This paper surveys the research literature and summarizes the major developments in this active research field, focusing on the modeling and control perspectives for rotating stall and surge in axial flow compressors.

Active Control of Compressor Surge and Stall, 1992 Having demonstrated in previous years the ability to model, identify, and control rotating stall, our research has concentrated in the past year on refinements and extensions to the compressor modeling developed for active control research. The areas in which progress has been made are: 1) refinement of the basic fluid mechanics based on identification results; 2) understanding the effects of distortion on wave detection; and 3) using the nonlinear form of the rotating stall model to simulate short circumferential extent waves. Three-stage actively stabilized compressor experiments supported this work and further verified that rotating stall stabilization is a viable concept.

Bifurcation Control Guanrong Chen, David John Hill, Xinghuo Yu, 2003-08-26 Bifurcation control refers to the task of designing a controller that can modify the bifurcation properties of a given nonlinear system so as to achieve some desirable dynamical behaviors. There exists no similar control theory-oriented book available in

the market that is devoted to the subject of bifurcation control written by control engineers for control engineers World renowned leading experts in the field provide their state of the art survey about the extensive research that has been done over the last few years in this subject The book is not only aimed at active researchers in the field of bifurcation control and its applications but also at a general audience in related fields 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 *Digital Controller Implementation and Fragility* Robert Istepanian, James F. Whidborne, 2012-12-06 In the usual process of control system design the assumption is made that the controller is implemented exactly This assumption is usually reasonable since clearly the plant uncertainty is the most significant source of uncertainty in the control system while controllers are implemented with high precision hardware However inevitably there will be some amount of uncertainty in the controller a fact that is largely ignored in existing modern advanced robust control techniques If the controller is implemented by analogue means there are some tolerances in the analogue components More commonly the controller will be implemented digitally and consequently there will be uncertainty involved with the quantization in the analogue digital conversion and rounding in the parameter representation and in the numerical computations A failure to account for these uncertainties in the controller may result in a controller that is fragile A controller is fragile in the sense that very small perturbations in the coefficients of the designed controller destabilize the closed loop control system This book collects a number of articles which consider the problems of finite precision computing in digital controllers and filters Written by leading researchers topics that the book covers include analysis of fragility and finite precision effects design of optimal controller realizations design of non fragile robust controllers design of low complexity digital controllers analysis of quantization effects in fuzzy controllers **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 Radiotherapy Treatment Planning Olivier C. Haas,2012-12-06 An in depth examination of many of the complex issues associated with planning and optimisation of intensity modulated radiotherapy treatment It includes a presentation of current practice techniques and equipment used by medical physicists and others to deliver radiotherapy treatment a systems modelling approach in the formulation of a beam model for optimisation describing the effect of X rays on human body tissues a deterministic approach to the inverse problem in radiotherapy based on weighted iterative least squares is modified to allow an adaptive scaling of the error to improve the performance of a general least squares algorithm a guided random search methodology based on genetic algorithms which is aimed at solving multi objective optimisation problems is developed to optimise beam weight wedge angle as well as coplanar beam orientation the overall approach developed is demonstrated practically using both traditional and modern measurement techniques **Proceedings of the ASME Dynamic Systems and Control Division** ,1994

Compressor Surge and Stall R. C. Pampreen,1993 High efficiency axial and centrifugal compressors are important in fields as diverse as aircraft engines superchargers and turbochargers process and refrigeration compressors Compressors must achieve high efficiency in blade rows in diffusing flow fields Of equal and sometimes greater importance is the range of stable operation of the compressor Blade row stall characteristics determine the limits of stable operation Blading can stall uniformly with symmetric flow breakdown or asymmetrically in rotating stall which propagates around the periphery of the blade row Depending on aerodynamic conditions surge may occur instead of in concert with or subsequent to blade row stall The transient breakdown and recovery of aerodynamic loading not only limits compressor performance but also leads to mechanical failures caused by the vibrational loads imposed on the blades There is no need to know what initiates these performance limits so that surge and stall margins can be optimized and control strategies can be planned the first step toward understanding is to be knowledgeable about the physical processes occurring during surge and stall This will permit the designer to anticipate variable geometry needs such as variable inlet guide vanes variable stators and bleed port strategies Theoretical treatment is far from being well established however there are many approaches discussed in the literature This book is a unique reference to the subject matter Physical descriptions of the phenomena are given test results are presented and analytical studies are discussed There has been much written about the experimental investigations and theoretical treatments related to surge and stall To assist those who would pursue advancements in furthering our knowledge

of surge and stall it seemed appropriate to have a resource that contains a compendium of information on this subject That is the purpose of this book Source d apr s la 4e de couverture

35th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit ,1999 *Hierarchical Nonlinear Switching Control Design with Applications to Propulsion Systems* Alexander Leonessa, Wassim M. Haddad, VijaySekhar Chellaboina, 2000-07-17 This book presents a general nonlinear control design methodology for nonlinear uncertain dynamical systems Specifically a hierarchical nonlinear switching control framework is developed that provides a rigorous alternative to gain scheduling control for general nonlinear uncertain systems The proposed switching control design framework accounts for actuator saturation constraints as well as system modeling uncertainty The efficacy of the control design approach is extensively demonstrated on aeroengine propulsion systems In particular dynamic models for rotating stall and surge in axial and centrifugal flow compression systems that lend themselves to the application of nonlinear control design are developed and the hierarchical switching control framework is then applied to control the aerodynamic instabilities of rotating stall and surge For the researcher who is entering the field of hierarchical switching robust control this book provides a plethora of new research directions Alternatively for researchers already active in the field of hierarchical control and hybrid systems this book can be used as a reference to a significant body of recent work Furthermore control practitioners involved with nonlinear control design can immensely benefit from the novel nonlinear stabilization techniques presented in the book

Robust Control of a Surge and Rotating Stall in an Axial Compressor Shengfang Liao, 2000 **Turbomachinery** PEP (Professional Engineering Publishers), 1999-03-12 This volume explores the scientific problems in the design development and operation of axial and radial turbomachinery

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

Journal of Engineering for Gas Turbines and Power ,2004 **ASME Technical Papers** ,2001

Proceedings of the ASME Turbo Expo ... ,2006 *Sensing, Actuation, and Control in Aeropropulsion* James Donald Paduano, 1995

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Table of Contents Comprebor Surge And Rotating Stall Modeling And Control

1. Understanding the eBook Comprebor Surge And Rotating Stall Modeling And Control
 - The Rise of Digital Reading Comprebor Surge And Rotating Stall Modeling And Control
 - Advantages of eBooks Over Traditional Books
2. Identifying Comprebor Surge And Rotating Stall Modeling And Control
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Comprebor Surge And Rotating Stall Modeling And Control
 - User-Friendly Interface
4. Exploring eBook Recommendations from Comprebor Surge And Rotating Stall Modeling And Control
 - Personalized Recommendations
 - Comprebor Surge And Rotating Stall Modeling And Control User Reviews and Ratings
 - Comprebor Surge And Rotating Stall Modeling And Control and Bestseller Lists

5. Accessing Comprebor Surge And Rotating Stall Modeling And Control Free and Paid eBooks
 - Comprebor Surge And Rotating Stall Modeling And Control Public Domain eBooks
 - Comprebor Surge And Rotating Stall Modeling And Control eBook Subscription Services
 - Comprebor Surge And Rotating Stall Modeling And Control Budget-Friendly Options
6. Navigating Comprebor Surge And Rotating Stall Modeling And Control eBook Formats
 - ePub, PDF, MOBI, and More
 - Comprebor Surge And Rotating Stall Modeling And Control Compatibility with Devices
 - Comprebor Surge And Rotating Stall Modeling And Control Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Comprebor Surge And Rotating Stall Modeling And Control
 - Highlighting and Note-Taking Comprebor Surge And Rotating Stall Modeling And Control
 - Interactive Elements Comprebor Surge And Rotating Stall Modeling And Control
8. Staying Engaged with Comprebor Surge And Rotating Stall Modeling And Control
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Comprebor Surge And Rotating Stall Modeling And Control
9. Balancing eBooks and Physical Books Comprebor Surge And Rotating Stall Modeling And Control
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Comprebor Surge And Rotating Stall Modeling And Control
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Comprebor Surge And Rotating Stall Modeling And Control
 - Setting Reading Goals Comprebor Surge And Rotating Stall Modeling And Control
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Comprebor Surge And Rotating Stall Modeling And Control
 - Fact-Checking eBook Content of Comprebor Surge And Rotating Stall Modeling And Control
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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