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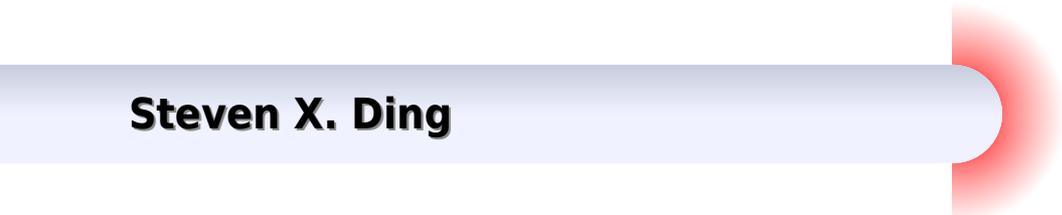
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Diagnosis And Faulttolerant Control

Steven X. Ding



Diagnosis And Faulttolerant Control:

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Fault tolerant control aims at a graceful degradation of the behaviour of automated systems in case of faults. It satisfies the industrial demand for enhanced availability and safety in contrast to traditional reactions to faults that bring about sudden shutdowns and loss of availability. The book presents effective model based analysis and design methods for fault diagnosis and fault tolerant control. Architectural and structural models are used to analyse the propagation of the fault through the process to test the fault detectability and to find the redundancies in the process that can be used to ensure fault tolerance. Design methods for diagnostic systems and fault tolerant controllers are presented for processes that are described by analytical models by discrete event models or that can be dealt with as quantised systems. Five case studies on pilot processes show the applicability of the presented methods. The theoretical results are illustrated by two running examples used throughout the book. The second edition includes new material about reconfigurable control, diagnosis of nonlinear systems and remote diagnosis. The application examples are extended by a steering by wire system and the air path of a diesel engine, both of which include experimental results. The bibliographical notes at the end of all chapters have been updated. The chapters end with exercises to be used in lectures.

Diagnosis and Fault-Tolerant Control Mogens Blanke, Michel Kinnaert, Jan Lunze, Marcel Staroswiecki, 2015-08-11
Fault tolerant control aims at a gradual shutdown response in automated systems when faults occur. It satisfies the industrial demand for enhanced availability and safety in contrast to traditional reactions to faults which bring about sudden shutdowns and loss of availability. The book presents effective model based analysis and design methods for fault diagnosis and fault tolerant control. Architectural and structural models are used to analyse the propagation of the fault through the process to test the fault detectability and to find the redundancies in the process that can be used to ensure fault tolerance. It also introduces design methods suitable for diagnostic systems and fault tolerant controllers for continuous processes that are described by analytical models of discrete event systems represented by automata. The book is suitable for engineering students, engineers in industry and researchers who wish to get an overview of the variety of approaches to process diagnosis and fault tolerant control. The authors have extensive teaching experience with graduate and PhD students as well as with industrial experts. Parts of this book have been used in courses for this audience. The authors give a comprehensive introduction to the main ideas of diagnosis and fault tolerant control and present some of their most recent research achievements obtained together with their research groups in a close cooperation with European research projects. The third edition resulted from a major restructuring and re-writing of the former edition which has been used for a decade by numerous research groups. New material includes distributed diagnosis of continuous and discrete event systems, methods for reconfigurability analysis and extensions of the structural methods towards fault tolerant control. The bibliographical notes at the end of all chapters have been updated. The chapters end with exercises to be used in

lectures **Diagnosis and Fault-tolerant Control Volume 2** Vicenc Puig,Silvio Simani,2021-12-29 This book presents recent advances in fault diagnosis and fault tolerant control of dynamic processes Its impetus derives from the need for an overview of the challenges of the fault diagnosis technique and sustainable control especially for those demanding systems that require reliability availability maintainability and safety to ensure efficient operations Moreover the need for a high degree of tolerance with respect to possible faults represents a further key point primarily for complex systems as modeling and control are inherently challenging and maintenance is both expensive and safety critical Diagnosis and Fault tolerant Control 2 also presents and compares different fault diagnosis and fault tolerant schemes using well established innovative strategies for modeling the behavior of the dynamic process under investigation An updated treatise of diagnosis and fault tolerant control is addressed with the use of essential and advanced methods including signal based model based and data driven techniques Another key feature is the application of these methods for dealing with robustness and reliability

Diagnosis and Fault-Tolerant Control Mogens Blanke,Michel Kinnaert,Jan Lunze,2014-01-15 **Fault Diagnosis and Fault-Tolerant Control Based on Adaptive Control Approach** Qikun Shen,Bin Jiang,Peng Shi,2017-02-14 This book provides recent theoretical developments in and practical applications of fault diagnosis and fault tolerant control for complex dynamical systems including uncertain systems linear and nonlinear systems Combining adaptive control technique with other control methodologies it investigates the problems of fault diagnosis and fault tolerant control for uncertain dynamic systems with or without time delay As such the book provides readers a solid understanding of fault diagnosis and fault tolerant control based on adaptive control technology Given its depth and breadth it is well suited for undergraduate and graduate courses on linear system theory nonlinear system theory fault diagnosis and fault tolerant control techniques Further it can be used as a reference source for academic research on fault diagnosis and fault tolerant control and for postgraduates in the field of control theory and engineering **Fault Diagnosis and Fault Tolerant Control** D. H

Zhou,Bin Jiang,Peng Shi,2010 **Advanced methods for fault diagnosis and fault-tolerant control** Steven X. Ding,2020-11-24 The major objective of this book is to introduce advanced design and online optimization methods for fault diagnosis and fault tolerant control from different aspects Under the aspect of system types fault diagnosis and fault tolerant issues are dealt with for linear time invariant and time varying systems as well as for nonlinear and distributed including networked systems From the methodological point of view both model based and data driven schemes are investigated To allow for a self contained study and enable an easy implementation in real applications the necessary knowledge as well as tools in mathematics and control theory are included in this book The main results with the fault diagnosis and fault tolerant schemes are presented in form of algorithms and demonstrated by means of benchmark case studies The intended audience of this book are process and control engineers engineering students and researchers with control engineering background

Diagnosis and Fault-tolerant Control 1 Vicenc Puig,Silvio Simani,2021-12-01 This book presents recent advances in fault

diagnosis strategies for complex dynamic systems Its impetus derives from the need for an overview of the challenges of the fault diagnosis technique especially for those demanding systems that require reliability availability maintainability and safety to ensure efficient operations Moreover the need for a high degree of tolerance with respect to possible faults represents a further key point primarily for complex systems as modeling and control are inherently challenging and maintenance is both expensive and safety critical Diagnosis and Fault tolerant Control 1 also presents and compares different diagnosis schemes using established case studies that are widely used in related literature The main features of this book regard the analysis design and implementation of proper solutions for the problems of fault diagnosis in safety critical systems The design of the considered solutions involves robust data driven model based approaches *Diagnosis, Fault Detection & Tolerant Control* Nabil Derbel, Jawhar Ghommam, Quanmin Zhu, 2020-02-20 This book focuses on unhealthy cyber physical systems Consisting of 14 chapters it discusses recognizing the beginning of the fault diagnosing the appearance of the fault and stopping the system or switching to a special control mode known as fault tolerant control Each chapter includes the background motivation quantitative development equations and case studies illustration tutorial simulations experiences curves tables etc Readers can easily tailor the techniques presented to accommodate their ad hoc applications

Data-driven Design of Fault Diagnosis and Fault-tolerant Control Systems Steven X. Ding, 2014-04-12 Data driven Design of Fault Diagnosis and Fault tolerant Control Systems presents basic statistical process monitoring fault diagnosis and control methods and introduces advanced data driven schemes for the design of fault diagnosis and fault tolerant control systems catering to the needs of dynamic industrial processes With ever increasing demands for reliability availability and safety in technical processes and assets process monitoring and fault tolerance have become important issues surrounding the design of automatic control systems This text shows the reader how thanks to the rapid development of information technology key techniques of data driven and statistical process monitoring and control can now become widely used in industrial practice to address these issues To allow for self contained study and facilitate implementation in real applications important mathematical and control theoretical knowledge and tools are included in this book Major schemes are presented in algorithm form and demonstrated on industrial case systems Data driven Design of Fault Diagnosis and Fault tolerant Control Systems will be of interest to process and control engineers engineering students and researchers with a control engineering background **Advanced methods for fault diagnosis and fault-tolerant control** Steven X.

Ding, 2020-11-24 The major objective of this book is to introduce advanced design and online optimization methods for fault diagnosis and fault tolerant control from different aspects Under the aspect of system types fault diagnosis and fault tolerant issues are dealt with for linear time invariant and time varying systems as well as for nonlinear and distributed including networked systems From the methodological point of view both model based and data driven schemes are investigated To allow for a self contained study and enable an easy implementation in real applications the necessary knowledge as well as

tools in mathematics and control theory are included in this book. The main results with the fault diagnosis and fault tolerant schemes are presented in form of algorithms and demonstrated by means of benchmark case studies. The intended audience of this book are process and control engineers, engineering students and researchers with control engineering background.

Fault Diagnosis and Fault-tolerant Control of Transport-reaction Processes Sathyendra Ku Ghantasala, 2010. Transport reaction processes represent a broad class of distributed parameter systems which permeate both traditional and emerging process industries. One of the central problems at the interface of process control and operations of these processes is the development of systematic methods for the diagnosis and handling of faults. The motivation for studying this problem stems in part from the vulnerability of automated industrial processes to faults such as malfunctions in control actuators, measurement sensors and process equipment as well as the increased emphasis placed on safety, reliability and profitability in the operation of industrial processes. It is well known that faults can lead to serious degradation in the system performance and may even lead to a complete breakdown of process operation if not handled properly in the control system design. Compared with the extensive body of work on this problem for lumped parameter processes, results for spatially distributed processes remain limited. Major bottlenecks in the design of fault tolerant control systems for distributed processes include the infinite dimensional nature of these processes as well as the complex nonlinearities and uncertainties that characterize their behavior. The work in this dissertation presents a methodology for the development of an integrated model based framework for the detection, isolation and management of faults in transport reaction processes modeled by highly dissipative systems of PDEs. The framework brings together tools from infinite dimensional systems, model reduction, nonlinear and robust control as well as hybrid system theory. The central idea in this work is to exploit the underlying structural characteristics of various classes of distributed processes to design robust fault diagnosis algorithms and controller reconfiguration strategies on the basis of appropriate low order models that are suitable for practical implementation and are amenable to rigorous closed loop analysis. Using singular perturbations analysis, precise criteria were developed to implement the finite dimensional framework on the infinite dimensional system. Techniques for handling practical implementation issues such as plant model mismatch, control constraints and measurement sampling constraints in the design of the fault tolerant control architecture are also developed. Finally, case studies involving applications to simulated models of representative transport reaction processes are presented to illustrate the developed methods.

Fault Diagnosis and Fault-Tolerant Control Strategies for Non-Linear Systems Marcin Witczak, 2013-12-11. This book presents selected fault diagnosis and fault tolerant control strategies for non-linear systems in a unified framework. In particular, starting from advanced state estimation strategies up to modern soft computing, the discrete time description of the system is employed. Part I of the book presents original research results regarding state estimation and neural networks for robust fault diagnosis. Part II is devoted to the presentation of integrated fault diagnosis and fault tolerant systems. It starts with a general fault tolerant control framework.

which is then extended by introducing robustness with respect to various uncertainties Finally it is shown how to implement the proposed framework for fuzzy systems described by the well known Takagi Sugeno models This research monograph is intended for researchers engineers and advanced postgraduate students in control and electrical engineering computer science as well as mechanical and chemical engineering

Observer-Based Fault Diagnosis and Fault-Tolerant Control for Switched Systems Dongsheng Du, Shengyuan Xu, Vincent Cocquempot, 2020-10-21 This book focuses on the fault diagnosis observer design for the switched system Model based fault diagnosis and fault tolerant control are one of the most popular research directions in recent decades It contains eight chapters Every chapter is independent in the method of observer design but all chapters are around the same topic Besides in each chapter the model description and theoretical results are firstly provided then some practical application examples are illustrated to prove the obtained results The advanced theoretical methodologies will benefit researchers or engineers in the area of safety engineering and the arrangement of the structure will help the readers to understand the content easily

Special Section on Fault Diagnosis and Fault Tolerant Control Bin Jiang, Marcel Staroswiecki, 2008

Diagnosis and fault-tolerant control using set-based methods Feng Xu, 2014

Fault Diagnosis and Fault-Tolerant Control and Guidance for Aerospace Vehicles ali Zolghadri, David Henry, Jérôme Cieslak, Denis Efimov, Philippe Goupil, 2013-11-27 Fault Diagnosis and Fault Tolerant Control and Guidance for Aerospace demonstrates the attractive potential of recent developments in control for resolving such issues as flight performance self protection and extended life structures Importantly the text deals with a number of practically significant considerations tuning complexity of design real time capability evaluation of worst case performance robustness in harsh environments and extensibility when development or adaptation is required Coverage of such issues helps to draw the advanced concepts arising from academic research back towards the technological concerns of industry Initial coverage of basic definitions and ideas and a literature review gives way to a treatment of electrical flight control system failures oscillatory failure runaway and jamming Advanced fault detection and diagnosis for linear and linear parameter varying systems are described Lastly recovery strategies appropriate to remaining actuator sensor communications resources are developed The authors exploit experience gained in research collaboration with academic and major industrial partners to validate advanced fault diagnosis and fault tolerant control techniques with realistic benchmarks or real world aeronautical and space systems Consequently the results presented in Fault Diagnosis and Fault Tolerant Control and Guidance for Aerospace will be of interest in both academic and aerospace industrial milieux

Fault Diagnosis and Fault-Tolerant Control of Nonlinear Systems with Higher System Input Powers Qikun Shen, Dezhi Xu, 2025-03-19 This book provides recent theoretical results and applications of the fault diagnosis and fault tolerant control for the nonlinear systems with higher input powers Combining adaptive control technique fuzzy logic systems neural networks Observer based methods with the other control technique or approaches this book investigates the fault diagnosis and fault tolerant control problem of the nonlinear systems with higher

input powers and proposes the corresponding diagnostic mechanisms Fault estimation algorithm and fault tolerant control schemes This book intends to provide the readers a good understanding on fault diagnosis and fault tolerant control of the nonlinear systems with higher input powers based on adaptive control technology This book can serve as a reference for the main research issues and results on nonlinear systems with higher input powers for researchers devoting to various areas of fault tolerant control theory as well as a material for graduate and undergraduate students interested in nonlinear system control especially fault diagnosis and fault tolerant control and their applications Some prerequisites for reading this book include nonlinear system theory matrix theory mathematics basic graph theory and so on

Fault Diagnosis and Fault-Tolerant Control and Guidance for Aerospace Vehicles Ali Zolghadri, David Henry, Jérôme Cieslak, Denis Efimov, Philippe Goupil, 2013-10-07 Fault Diagnosis and Fault Tolerant Control and Guidance for Aerospace demonstrates the attractive potential of recent developments in control for resolving such issues as flight performance self protection and extended life structures Importantly the text deals with a number of practically significant considerations tuning complexity of design real time capability evaluation of worst case performance robustness in harsh environments and extensibility when development or adaptation is required Coverage of such issues helps to draw the advanced concepts arising from academic research back towards the technological concerns of industry Initial coverage of basic definitions and ideas and a literature review gives way to a treatment of electrical flight control system failures oscillatory failure runaway and jamming Advanced fault detection and diagnosis for linear and linear parameter varying systems are described Lastly recovery strategies appropriate to remaining actuator sensor communications resources are developed The authors exploit experience gained in research collaboration with academic and major industrial partners to validate advanced fault diagnosis and fault tolerant control techniques with realistic benchmarks or real world aeronautical and space systems Consequently the results presented in Fault Diagnosis and Fault Tolerant Control and Guidance for Aerospace will be of interest in both academic and aerospace industrial milieu

Fault Diagnosis and Fault Tolerance for Mechatronic Systems: Recent Advances Fabrizio Caccavale, Luigi Villani, 2003-09-05 The field of robotics continues to flourish and develop In common with general scientific investigation new ideas and implementations emerge quite spontaneously and these are discussed used discarded or subsumed at conferences in the reference journals as well as through the Internet After a little more maturity has been acquired by the new concepts then archival publication as a scientific or engineering monograph may occur The goal of the Springer Tracts in Advanced Robotics is to publish new developments and advances in the fields of robotics research rapidly and informally but with a high quality It is hoped that prospective authors will welcome the opportunity to publish a structured presentation of some of the emerging robotics methodologies and technologies The edited volume by Fabrizio Caccavale and Luigi Villani concerns with a wide subject of modern engineering namely mechatronics This new discipline has lately been receiving an increasing deal of attention for its unique connotation to represent a blend of mechanical electronic

and information technologies In such a scenario the importance of providing the supervisory control system with fault detection and fault identification capabilities becomes crucial to the effective development of mechatronic systems

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