

Steven X. Ding

Model-Based Fault Diagnosis Techniques

Design Schemes, Algorithms and Tools

Second Edition



Model Based Fault Diagnosis Techniques Design

Schemes Algorithms And Tools

Terry C. Jones

Model Based Fault Diagnosis Techniques Design Schemes Algorithms And Tools:

Model-based Fault Diagnosis Techniques Steven X. Ding, 2008-02-23 The objective of this book is to introduce basic model based FDI schemes advanced analysis and design algorithms and the needed mathematical and control theory tools at a level for graduate students and researchers as well as for engineers This is a textbook with extensive examples and references Most methods are given in the form of an algorithm that enables a direct implementation in a programme Comparisons among different methods are included when possible

Model-Based Fault Diagnosis Techniques Steven Ding, 2012-12-21 Guaranteeing a high system performance over a wide operating range is an important issue surrounding the design of automatic control systems with successively increasing complexity As a key technology in the search for a solution advanced fault detection and identification FDI is receiving considerable attention This book introduces basic model based FDI schemes advanced analysis and design algorithms and mathematical and control theoretic tools This second edition of Model Based Fault Diagnosis Techniques contains new material on fault isolation and identification and alarm management extended and revised treatment of systematic threshold determination for systems with both deterministic unknown inputs and stochastic noises addition of the continuously stirred tank reactor as a representative process industrial benchmark and enhanced discussion of residual evaluation which now deals with stochastic processes Model based Fault Diagnosis Techniques will interest academic researchers working in fault identification and diagnosis and as a text it is suitable for graduate students in a formal university based course or as a self study aid for practising engineers working with automatic control or mechatronic systems from backgrounds as diverse as chemical process and power engineering

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

Process Monitoring, Fault Diagnosis, and Tolerant Control for Complex Industrial Systems Hao Luo, Zhiwen Chen, Linlin Li, 2025-11-27 This open access book details fault diagnosis prognosis and tolerant control for complex industrial systems It is also dedicated to Professor Steven X Ding for his retirement This book proposes data driven quality related fault diagnosis schemes based on space projection for linear nonlinear systems It also introduces credible and efficient fault prognosis techniques for complex industrial systems It

combines fault detection and re configuration toward the design of fault tolerant control methods It will be a useful reference for students and researchers working on fault diagnosis

Electro-Mechanical Actuators for the More Electric

Aircraft Mirko Mazzoleni,Gianpietro Di Rito,Fabio Previdi,2021-01-19 This book presents recent results on fault diagnosis and condition monitoring of airborne electromechanical actuators illustrating both algorithmic and hardware design solutions to enhance the reliability of onboard more electric aircraft The book begins with an introduction to the current trends in the development of electrically powered actuation systems for aerospace applications Practical examples are proposed to help present approaches to reliability availability maintainability and safety analysis of airborne equipment The terminology and main strategies for fault diagnosis and condition monitoring are then reviewed The core of the book focuses on the presentation of relevant case studies of fault diagnosis and monitoring design for airborne electromechanical actuators using different techniques The last part of the book is devoted to a summary of lessons learned and practical suggestions for the design of fault diagnosis solutions of complex airborne systems The book is written with the idea of providing practical guidelines on the development of fault diagnosis and monitoring algorithms for airborne electromechanical actuators It will be of interest to practitioners in aerospace mechanical electronic reliability and systems engineering as well as researchers and postgraduates interested in dynamical systems automatic control and safety critical systems Advances in Industrial Control reports and encourages 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

Wireless and Satellite

Systems Qihui Wu,Kanglian Zhao,Xiaojin Ding,2021-02-27 This two volume set LNICST 357 358 constitutes the post conference proceedings of the 11th EAI International Conference on Wireless and Satellite Services WiSATS 2020 held in Nanjing China in September 2020 The 91 full papers and workshop papers were carefully reviewed and selected from 200 submissions Part I LNICST 357 details original research and results of wireless and satellite technology for a smarter global communication architecture The theme of WISATS 2020 is Intelligent Wireless and Satellite Communications for Beyond 5G Part II LNICST 358 presents 6 workshop papers High Speed Space Communication and Space Information Networks HSSCSIN Integrated Space and Onboard Networks ISON Intelligent Satellite Operations Managements and Applications ISOMA Intelligent Satellites in Future Space Networked System ISFSNS Satellite Communications Networking and Applications SCNA Satellite Internet of Things Trusted Data Sharing Secure Communication SIOTTDSSC

Mechanical

Engineering, Materials and Energy II Sally Gao,Tina Hu,2013-01-11 Selected peer reviewed papers from the 2nd International Conference on Mechanical Engineering Materials and Energy ICMEME 2012 October 26 27 2012 Dalian China

Diagnosability, Security and Safety of Hybrid Dynamic and Cyber-Physical Systems

Moamar Sayed-Mouchaweh,2018-03-08 Cyber physical systems CPS are characterized as a combination of physical physical plant

process network and cyber software algorithm computation components whose operations are monitored controlled coordinated and integrated by a computing and communicating core The interaction between both physical and cyber components requires tools allowing analyzing and modeling both the discrete and continuous dynamics Therefore many CPS can be modeled as hybrid dynamic systems in order to take into account both discrete and continuous behaviors as well as the interactions between them Guaranteeing the security and safety of CPS is a challenging task because of the inherent interconnected and heterogeneous combination of behaviors cyber physical discrete continuous in these systems This book presents recent and advanced approaches and techniques that address the complex problem of analyzing the diagnosability property of cyber physical systems and ensuring their security and safety against faults and attacks The CPS are modeled as hybrid dynamic systems using different model based and data driven approaches in different application domains electric transmission networks wireless communication networks intrusions in industrial control systems intrusions in production systems wind farms etc These approaches handle the problem of ensuring the security of CPS in presence of attacks and verifying their diagnosability in presence of different kinds of uncertainty uncertainty related to the event occurrences to their order of occurrence to their value etc **Industrial Control Systems Design** Michael J. Grimble,2001-03-30 Bridging the gap between research and industry this volume systematically and comprehensively presents the latest advances in control and estimation With emphasis on applications industrial problems illustrate the use of transfer function and state space methods for modelling and design Combining theory with practice Industrial Control Systems Design will appeal to practising engineers and academic researchers in control engineering This unique reference spans fundamental state space and polynomial systems theory and introduces quantitative feedback theory Includes design case studies with illustrative problem descriptions and analysis from the steel marine process control aerospace and power generation sectors Focuses on the challenges in predictive optimal control now an indispensable method in advanced control applications Provides an introduction to safety critical control systems design and combined fault monitoring and control techniques Discusses the design of LQG and H controllers with several degrees of freedom including feedback tracking and feedforward functions

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