R. Isermann

Fault–Diagnosis Systems

An Introduction from Fault Detection to Fault Tolerance

Fault Diagnosis Systems An Introduction From Fault Detection To Fault Tolerance

Laure Itard,Lada Hensen-Centnerová,Atze Boerstra,Philomena Bluyssen,Jan Hensen,Tillmann Klein,Marcel Loomans,Pieter Pauwels,Christian Struck,Martin Tenpierik,Bob Geldermans

Fault Diagnosis Systems An Introduction From Fault Detection To Fault Tolerance:

  Fault-Diagnosis Systems Rolf Isermann,2006-01-16 With increasing demands for efficiency and product quality plus progress in the integration of automatic control systems in high cost mechatronic and safety critical processes the field of supervision or monitoring fault detection and fault diagnosis plays an important role The book gives an introduction into advanced methods of fault detection and diagnosis FDD After definitions of important terms it considers the reliability availability safety and systems integrity of technical processes Then fault detection methods for single signals without models such as limit and trend checking and with harmonic and stochastic models such as Fourier analysis correlation and wavelets are treated This is followed by fault detection with process models using the relationships between signals such as parameter estimation parity equations observers and principal component analysis The treated fault diagnosis methods include classification methods from Bayes classification to neural networks with decision trees and inference methods from approximate reasoning with fuzzy logic to hybrid fuzzy neuro systems Several practical examples for fault detection and diagnosis of DC motor drives a centrifugal pump automotive suspension and tire demonstrate applications

  Fault-Diagnosis Systems Rolf Isermann,2011-11 With increasing demands for efficiency and product quality and progressing integration of automatic control systems in high cost mechatronic and safety critical processes the field of supervision or monitoring fault detection and fault diagnosis plays an important role The book gives an introduction into advanced methods of fault detection and diagnosis FDD After definitions of important terms the reliability availability safety and systems integrity of technical processes is considered Then fault detection methods for single signals without models like limit and trend checking and with harmonic and stochastic models like Fourier analysis correlation and wavelets are treated This is followed by fault detection with process models using the relationships between signals like parameter estimation parity equations observers and principal component analysis The treated fault diagnosis methods include classification methods from Bayes classification to neural networks with decision trees and inference methods from approximate reasoning with fuzzy logic to hybrid fuzzy neuro systems Especially for safety critical processes fault tolerant systems are required Basic redundant structures like n out of m systems cold and hot standby are considered and ways to design fault tolerant sensors actuators and control systems are outlined Several practical examples for fault detection and diagnosis of DC motor drives a centrifugal pump automotive suspension and tire show applications   **Fault-Diagnosis Systems** Rolf Isermann,2009-09-02 With increasing demands for efficiency and product quality plus progress in the integration of automatic control systems in high cost mechatronic and safety critical processes the field of supervision or monitoring fault detection and fault diagnosis plays an important role The book gives an introduction into advanced methods of fault detection and diagnosis FDD After definitions of important terms it considers the reliability availability safety and systems integrity of technical processes Then fault detection methods for single signals without models such as limit and trend checking and with

harmonic and stochastic models such as Fourier analysis correlation and wavelets are treated This is followed by fault detection with process models using the relationships between signals such as parameter estimation parity equations observers and principal component analysis The treated fault diagnosis methods include classification methods from Bayes classification to neural networks with decision trees and inference methods from approximate reasoning with fuzzy logic to hybrid fuzzy neuro systems Several practical examples for fault detection and diagnosis of DC motor drives a centrifugal pump automotive suspension and tire demonstrate applications **Fault-Diagnosis Applications** Rolf Isermann,2011-04-06 Supervision condition monitoring fault detection fault diagnosis and fault management play an increasing role for technical processes and vehicles in order to improve reliability availability maintenance and lifetime For safety related processes fault tolerant systems with redundancy are required in order to reach comprehensive system integrity This book is a sequel of the book Fault Diagnosis Systems published in 2006 where the basic methods were described After a short introduction into fault detection and fault diagnosis methods the book shows how these methods can be applied for a selection of 20 real technical components and processes as examples such as Electrical drives DC AC Electrical actuators Fluidic actuators hydraulic pneumatic Centrifugal and reciprocating pumps Pipelines leak detection Industrial robots Machine tools main and feed drive drilling milling grinding Heat exchangers Also realized fault tolerant systems for electrical drives actuators and sensors are presented The book describes why and how the various signal model based and process model based methods were applied and which experimental results could be achieved In several cases a combination of different methods was most successful The book is dedicated to graduate students of electrical mechanical chemical engineering and computer science and for engineers Diagnosis and Fault-Tolerant Control Mogens Blanke,Michel Kinnaert,Jan Lunze,Marcel Staroswiecki,2013-03-14 Technological systems are vulnerable to faults Actuator faults reduce the performance of control systems and may even cause a complete break down of the system Erroneous sensor readings are the reason for operating points that are far from the optimal ones Wear reduces the efficiency and quality of a production line In most fault situations the system operation has to be stopped to avoid damage to machinery and humans As a consequence the detection and the handling of faults play an increas ing role in modern technology where many highly automated components interact in a complex way and where a fault in a single component may cause the malfunction of the whole system Due to the simultaneously increasing economic demands and the numerous ecological and safety restrictions to be met high dependability of technological systems has become a dominant goal in industry in the recent years This book introduces the main ideas of fault diagnosis and fault tolerant control It gives a thorough survey of the new methods that have been de veloped in the recent years and demonstrates them by application examples To the knowledge of the authors all major aspects of fault tolerant control are treated for the first time in a single book from a common viewpoint *Analysis and Synthesis of Fault-Tolerant Control Systems* Magdi S. Mahmoud,Yuanqing Xia,2013-10-28 In recent years control

systems have become more sophisticated in order to meet increased performance and safety requirements for modern technological systems Engineers are becoming more aware that conventional feedback control design for a complex system may result in unsatisfactory performance or even instability in the event of malfunctions in actuators sensors or other system components In order to circumvent such weaknesses new approaches to control system design have emerged which can tolerate component malfunctions while maintaining acceptable stability and performance These types of control systems are often known as fault tolerant control systems FTCS More precisely FTCS are control systems which possess the ability to accommodate component failure automatically Analysis and Synthesis of Fault Tolerant Control Systems comprehensively covers the analysis and synthesis methods of fault tolerant control systems It unifies the methods for developing controllers and filters for a wide class of dynamical systems and reports on the recent technical advances in design methodologies MATLAB is used throughout the book to demonstrate methods of analysis and design Key features Provides advanced theoretical methods and typical practical applications Provides access to a spectrum of control design methods applied to industrial systems Includes case studies and illustrative examples Contains end of chapter problems Analysis and Synthesis of Fault Tolerant Control Systems is a comprehensive reference for researchers and practitioners working in this area and is also a valuable source of information for graduates and senior undergraduates in control mechanical aerospace electrical and mechatronics engineering departments   Advanced Solutions in Diagnostics and Fault Tolerant Control Jan M. Kościelny,Michał Syfert,Anna Sztyber,2017-07-28 This book highlights the latest achievements concerning the theory methods and practice of fault diagnostics fault tolerant systems and cyber safety When considering the diagnostics of industrial processes and systems increasingly important safety issues cannot be ignored In this context diagnostics plays a crucial role as a primary measure of the improvement of the overall system safety integrity level Obtaining the desired diagnostic coverage or providing an appropriate level of inviolability of the integrity of a system is now practically inconceivable without the use of fault detection and isolation methods Given the breadth and depth of its coverage the book will be of interest to researchers faced with the challenge of designing technical and medical diagnosis systems as well as junior researchers and students in the fields of automatic control robotics computer science and artificial intelligence

Monitoring and Control of Information-Poor Systems Arthur L. Dexter,2012-02-16 The monitoring and control of a system whose behaviour is highly uncertain is an important and challenging practical problem Methods of solution based on fuzzy techniques have generated considerable interest but very little of the existing literature considers explicit ways of taking uncertainties into account This book describes an approach to the monitoring and control of information poor systems that is based on fuzzy relational models which generate fuzzy outputs The first part of Monitoring and Control of Information Poor Systems aims to clarify why design decisions must take account of the uncertainty associated with optimal choices and to explain how a fuzzy relational model can be used to generate a fuzzy output which reflects the uncertainties associated with

its predictions Part two gives a brief introduction to fuzzy decision making and shows how it can be used to design a predictive control scheme that is suitable for controlling information poor systems using inaccurate measurements Part three describes different ways in which fuzzy relational models can be generated online and explains the practical issues associated with their identification and application The final part of the book provides examples of the use of the previously described techniques in real applications Key features Describes techniques applicable to a wide range of engineering environmental medical financial and economic applications Uses simple examples to help explain the basic techniques for dealing with uncertainty Describes a novel design approach based on the use of fuzzy relational models Considers practical issues associated with applying the techniques to real systems Monitoring and Control of Information Poor Systems forms an invaluable resource for a wide range of graduate students and is also a comprehensive reference for researchers and practitioners working on problems involving mathematical modelling and control   Systems, Automation and Control Nabil Derbel,Faouzi Derbel,Olfa Kanoun,2017-12-04 The fifth volume of the Series Advances in Systems Signals and Devices is dedicated to fields related to Systems Automation and Control The scope of this issue encompasses all aspects of the research development and applications of the science and technology in these fields Topics of this issue concern system design system identification biological and economical models control modern control theory nonlinear observers control and application of chaos adaptive non adaptive backstepping control techniques advances in linear control theory systems optimization multivariable control large scale and infinite dimension systems nonlinear control distributed control predictive control geometric control adaptive control optimal and stochastic control robust control neural control fuzzy control intelligent control systems diagnostics fault tolerant control robotics and mechatronics navigation robotics and human machine interaction hierarchical and man machine systems etc Authors are encouraged to submit novel contributions which include results of research or experimental work discussing new developments in the field of systems automation and control The series can be also addressed for editing special issues for novel developments in specific fields The aim of this volume is to promote an international scientific progress in the fields of systems automation and control It provides at the same time an opportunity to be informed about interesting results that have been reported during the international SSD conferences   **Proceedings CLIMA 2022** Laure Itard,Lada Hensen-Centnerová,Atze Boerstra,Philomena Bluyssen,Jan Hensen,Tillmann Klein,Marcel Loomans,Pieter Pauwels,Christian Struck,Martin Tenpierik,Bob Geldermans,2022-10-12 The 14th REHVA HVAC World Congress CLIMA2022 challenges advances in technologies for smart energy transition digitization circularity health and well being in buildings How can we create circular buildings fully heated cooled and powered by renewable energy How can we design human centered indoor environments while mastering life cycle costs How can we also include their integration into infrastructure for energy health data and education   *Computational Intelligence for Decision Support in Cyber-Physical Systems* Zeashan H Khan,A. B. M. Shawkat Ali,Zahid Riaz,2014-02-18 This book is dedicated to

applied computational intelligence and soft computing techniques with special reference to decision support in Cyber Physical Systems CPS where the physical as well as the communication segment of the networked entities interact with each other The joint dynamics of such systems result in a complex combination of computers software networks and physical processes all combined to establish a process flow at system level This volume provides the audience with an in depth vision about how to ensure dependability safety security and efficiency in real time by making use of computational intelligence in various CPS applications ranging from the nano world to large scale wide area systems of systems Key application areas include healthcare transportation energy process control and robotics where intelligent decision support has key significance in establishing dynamic ever changing and high confidence future technologies A recommended text for graduate students and researchers working on the applications of computational intelligence methods in CPS **Fault Diagnosis** Józef Korbicz,Jan M. Koscielny,Zdzislaw Kowalczuk,Wojciech Cholewa,2012-12-06 All real systems in nature physical biological and engineering ones can malfunction and fail due to faults in their components Logically the chances for malfunctions increase with the systems complexity The complexity of engineering systems is permanently growing due to their growing size and the degree of automation and accordingly increasing is the danger of fail ing and aggravating their impact for man and the environment Therefore in the design and operation of engineering systems increased attention has to be paid to reliability safety and fault tolerance But it is obvious that compared to the high standard of perfection that nature has achieved with its self healing and self repairing capabilities in complex biological organisms fault management in engineering systems is far behind the standards of their technological achievements it is still in its infancy and tremendous work is left to be done In technical control systems defects may happen in sensors actuators components of the controlled object the plant or in the hardware or soft ware of the control framework Such defects in the components may develop into a failure of the whole system This effect can easily be amplified by the closed loop but the closed loop may also hide an incipient fault from be ing observed until a situation has occurred in which the failing of the whole system has become unavoidable **Nonlinear Industrial Control Systems** Michael J. Grimble,Paweł Majecki,2020-05-19 Nonlinear Industrial Control Systems presents a range of mostly optimisation based methods for severely nonlinear systems it discusses feedforward and feedback control and tracking control systems design The plant models and design algorithms are provided in a MATLAB toolbox that enable both academic examples and industrial application studies to be repeated and evaluated taking into account practical application and implementation problems The text makes nonlinear control theory accessible to readers having only a background in linear systems and concentrates on real applications of nonlinear control It covers different ways of modelling nonlinear systems including state space polynomial based linear parameter varying state dependent and hybrid design techniques for nonlinear optimal control including generalised minimum variance model predictive control quadratic Gaussian factorised and H design methods design philosophies that are suitable for aerospace automotive marine process

control energy systems robotics servo systems and manufacturing steps in design procedures that are illustrated in design studies to define cost functions and cope with problems such as disturbance rejection uncertainties and integral wind up and baseline non optimal control techniques such as nonlinear Smith predictors feedback linearization sliding mode control and nonlinear PID Nonlinear Industrial Control Systems is valuable to engineers in industry dealing with actual nonlinear systems It provides students with a comprehensive range of techniques and examples for solving real nonlinear control design problems   Intelligent Monitoring, Control, and Security of Critical Infrastructure Systems Elias Kyriakides,Marios Polycarpou,2014-09-13 This book describes the challenges that critical infrastructure systems face and presents state of the art solutions to address them How can we design intelligent systems or intelligent agents that can make appropriate real time decisions in the management of such large scale complex systems What are the primary challenges for critical infrastructure systems The book also provides readers with the relevant information to recognize how important infrastructures are and their role in connection with a society s economy security and prosperity It goes on to describe state of the art solutions to address these points including new methodologies and instrumentation tools e g embedded software and intelligent algorithms for transforming and optimizing target infrastructures The book is the most comprehensive resource to date for professionals in both the private and public sectors while also offering an essential guide for students and researchers in the areas of modeling and analysis of critical infrastructure systems monitoring control risk impact evaluation fault diagnosis fault tolerant control and infrastructure dependencies interdependencies The importance of the research presented in the book is reflected in the fact that currently for the first time in human history more people live in cities than in rural areas and that by 2050 roughly 70% of the world s total population is expected to live in cities   Fault Diagnosis in Dynamic Systems Ron Patton,Robert Clark,Paul M. Frank,1989 Concerned with monitoring techniques to detect predict isolate identify and correct malfunctions and failures of individual components within complex automatic systems used in industry and commerce The approaches examined include parameter estimation Markov modelling for threshold determinatio   **Memoirs of the Scientific Sections of the Academy of the Socialist Republic of Romania** ,2007   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 **Linear and Reconfigurable Control of Wing Damaged Aircraft** Pascal Nespeca,2009 *Fault Diagnosis and Fault Tolerance for Mechatronic Systems: Recent Advances* Fabrizio Caccavale,Luigi Villani,2002-10-09 This book will play a central role in ensuring safe and reliable behaviour of intelligent and autonomous systems It collects some of the most recent results in fault diagnosis and fault tolerant systems with particular emphasis on mechatronic systems *Fault-tolerant Computing* Dhiraj K. Pradhan,1986 Fault tolerant computing has evolved into a broad discipline one that encompasses all aspects of reliable computer design Diverse areas of fault tolerant study range from failure mechanisms in integrated circuits to the design of robust software Fault tolerant computing is driven by a number of key factors including ultra high reliability reduced life cycle costs and long life applications This book is intended to be both introductory and suitable for advanced level graduates Chapters can be selected in various combinations to provide courses with different orientations

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