

Auxiliary Signal Design for Failure Detection



**Stephen L. Campbell and
Ramine Nikoukhah**

Auxiliary Signal Design For Failure Detection

X. J. Zhang



Auxiliary Signal Design For Failure Detection:

Auxiliary Signal Design for Failure Detection Stephen La Vern Campbell,2004 *Auxiliary Signal Design for Failure Detection* Stephen L. Campbell,Ramine Nikoukhah,2015-11-03 Many industries such as transportation and manufacturing use control systems to insure that parameters such as temperature or altitude behave in a desirable way over time For example pilots need assurance that the plane they are flying will maintain a particular heading An integral part of control systems is a mechanism for failure detection to insure safety and reliability This book offers an alternative failure detection approach that addresses two of the fundamental problems in the safe and efficient operation of modern control systems failure detection deciding when a failure has occurred and model identification deciding which kind of failure has occurred Much of the work in both categories has been based on statistical methods and under the assumption that a given system was monitored passively Campbell and Nikoukhah s book proposes an active multimodel approach It calls for applying an auxiliary signal that will affect the output so that it can be used to easily determine if there has been a failure and what type of failure it is This auxiliary signal must be kept small and often brief in duration in order not to interfere with system performance and to ensure timely detection of the failure The approach is robust and uses tools from robust control theory Unlike some approaches it is applicable to complex systems The authors present the theory in a rigorous and intuitive manner and provide practical algorithms for implementation of the procedures **Fault Detection, Supervision and Safety of Technical Processes 2003 (SAFEPROCESS 2003)** Marcel Staroswiecki,Eva Wu,2004-02-27 A three volume work bringing together papers presented at SAFEPROCESS 2003 including four plenary papers on statistical physical model based and logical model based approaches to fault detection and diagnosis as well as 178 regular papers *Auxiliary Signal Design in Fault Detection and Diagnosis* Xue Jun Zhang,1989 *Test Signal Generation for Service Diagnosis Based on Local Structure Graphs* Michael Ungermann,2015-05-06 This work considers the problem of identifying the fault in a faulty dynamical system on the basis of the system s input and output signals only For this purpose a model based method for the design of diagnostic tests which consist of specific input signals and appropriate residual generators is developed The method extends the structure graph of dynamical systems in order to represent the couplings in a system which has been brought to a specific operating region The resulting local structure graph is used to determine specific residual generators which can distinguish between faults on the basis of the system s input and output signals in the corresponding operating region Algorithms to determine advantageous operating regions and input signals which drive the system into such operating regions are given The application of the method to determine diagnostic tests is demonstrated using a typical automotive system a throttle valve *Advanced and Intelligent Computations in Diagnosis and Control* Zdzisław Kowalczyk,2015-09-01 This book is devoted to the demands of research and industrial centers for diagnostics monitoring and decision making systems that result from the increasing complexity of automation and systems the need to ensure the highest level of

reliability and safety and continuing research and the development of innovative approaches to fault diagnosis The contributions combine domains of engineering knowledge for diagnosis including detection isolation localization identification reconfiguration and fault tolerant control The book is divided into six parts I Fault Detection and Isolation II Estimation and Identification III Robust and Fault Tolerant Control IV Industrial and Medical Diagnostics V Artificial Intelligence VI Expert and Computer Systems

Surveys in Differential-Algebraic Equations III Achim Ilchmann, Timo Reis, 2015-10-29 The present volume comprises survey articles on various fields of Differential Algebraic Equations DAEs which have widespread applications in controlled dynamical systems especially in mechanical and electrical engineering and a strong relation to ordinary differential equations The individual chapters provide reviews presentations of the current state of research and new concepts in Flexibility of DAE formulations Reachability analysis and deterministic global optimization Numerical linear algebra methods Boundary value problems The results are presented in an accessible style making this book suitable not only for active researchers but also for graduate students with a good knowledge of the basic principles of DAEs for self study

Auxiliary Signal Design in Fault Detection and Diagnosis Xue J. Zhang, 2014-03-12 The object of this book is to present a systematic method for auxiliary signal design in fault detection and diagnosis It covers systems that can be represented by linear or linearised multiple input multiple output stochastic models It is very illustrative since each new concept is demonstrated with simple examples and plots Some fundamental problems in change detection have been investigated A basic knowledge of probability theory statistical inference matrix and control theory is required Postgraduates and researchers will find it an interesting reference to fault detection and test signal design The book can also be used as a tutorial material for final year undergraduates especially those who work on a project related to test signal designs fault detection or modeling

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