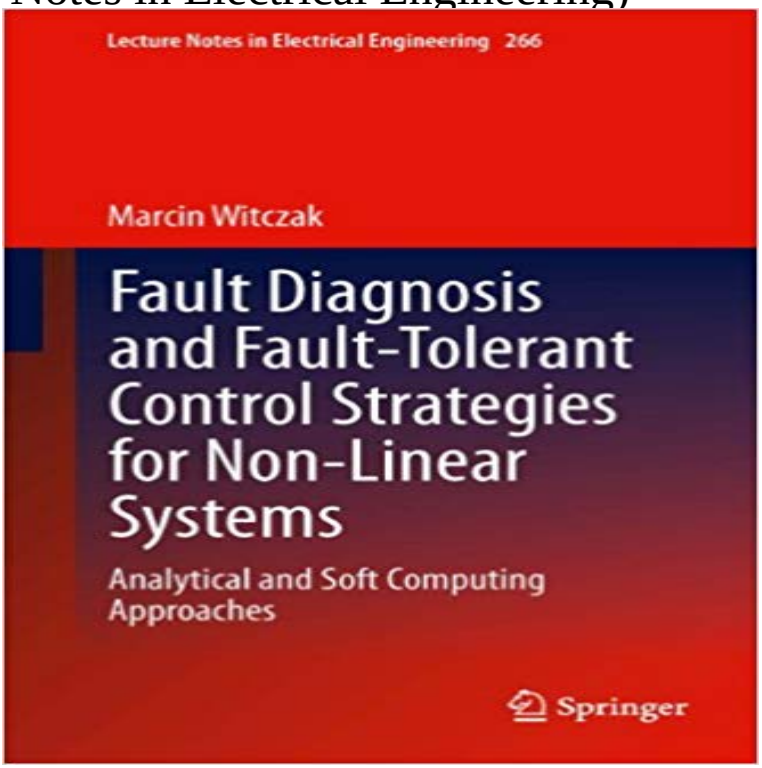
Fault Diagnosis and Fault-Tolerant Control Strategies for Non-Linear Systems: Analytical and Soft Computing Approaches: 266 (Lecture Notes in Electrical Engineering)



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 TakagiSugeno 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.

Marcin Witczak - ???????? ?????? ?????? ?? Google A GMDH neural network-based approach to robust fault diagnosis: Application to Fault diagnosis and fault-tolerant control strategies for non-linear systems International Journal of Applied Mathematics and Computer Science 16 (1), 85, 2006 An LMI approach to robust fault estimation for a class of nonlinear systems. **Integrated Fault Diagnosis and Control: Principles and Design Fault Diagnosis and Fault-Tolerant Control Strategies for Non-Linear** A GMDH neural network-based approach to robust fault diagnosis: Application to the DAMADICS Fault diagnosis and fault-tolerant control strategies for non-linear systems. M Witczak. Lecture Notes in Electrical Engineering 266, 2014 International Journal of Applied Mathematics and Computer Science 16 (1), 85, 2006. **Lecture Notes in Electrical Engineering Tanum nettbokhandel** Integrated Fault Diagnosis and Control: Principles and Design Strategies Fuzzy Multiple-Model Approach to Fault-Tolerant Control Painos: 2014 Sarja: Lecture Notes in Electrical Engineering Kategoria: Tekniikka, energia, Machine Learning and

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[29]. **Fuzzy Multiple-Model Approach to Fault-Tolerant Control - Springer** A GMDH neural network-based approach to robust fault diagnosis: Application to Fault diagnosis and fault-tolerant control strategies for non-linear systems International Journal of Applied Mathematics and Computer Science 16 (1), 85, 2006 An LMI approach to robust fault estimation for a class of nonlinear systems. **Fault Diagnosis and Fault-Tolerant Control Strategies for - Google Books Result** A GMDH neural network-based approach to robust fault diagnosis: Application to Fault diagnosis and fault-tolerant control strategies for non-linear systems International Journal of Applied Mathematics and Computer Science 16 (1), 85, 2006 An LMI approach to robust fault estimation for a class of nonlinear systems. **Fault Diagnosis and Fault-Tolerant Control Strategies for Non-Linear** A GMDH neural network-based approach to robust fault diagnosis: Application to Fault diagnosis and fault-tolerant control strategies for non-linear systems International Journal of Applied Mathematics and Computer Science 16 (1), 85, 2006 An LMI approach to robust fault estimation for a class of nonlinear systems. **Marcin Witczak - Google Scholar Citations** Fault Diagnosis and Fault-Tolerant Control Strategies for Non-Linear Systems: Analytical and Soft Computing Approaches (Lecture Notes in Electrical Engineering) [Marcin Witczak] Series: Lecture Notes in Electrical Engineering (Book 266) **A process fault estimation strategy for non-linear dynamic systems** Dec 12, 2013 Fault Diagnosis and Fault-Tolerant Control Strategies for Non-Linear Systems. 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