



# Fault-tolerant Control Systems: Design and Practical Applications (Advances in Industrial Control)

Hassan Noura, Didier Theilliol, Jean-Christophe Ponsart, Abbas Chamseddine

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## Fault-tolerant Control Systems: Design and Practical Applications (Advances in Industrial Control)

Hassan Noura, Didier Theilliol, Jean-Christophe Ponsart, Abbas Chamseddine The seriesAdvancesinIndustrialControl aims to report and encourage te-nologytransfer in controlengineering. The rapid development of controlte- nology has an impact on all areas of the control discipline. New theory, new controllers, actuators, sensors, new industrial processes, computer methods, new applications, new philosophies. . . , new challenges. Much of this devel- ment work resides in industrial reports, feasibility study papers, and the - ports of advanced collaborative projects. The series o?ers an opportunity for researchers to present an extended exposition of such new work in all aspects of industrial control for wider and rapid dissemination. Control system design and technology continues to develop in many d- ferent directions. One theme that the Advances in Industrial Control series is following is the application of nonlinear control design methods, and the series has some interesting new commissions in progress. However, another theme of interest is how to endow the industrial controller with the ability to overcome faults and process degradation. Fault detection and isolation is a broad ?eld with a research literature spanning several decades. This topic deals with three questions: • How is the presence of a fault detected? • What is the cause of the fault? • Where is it located? However, there has been less focus on the question of how to use the control system to accommodate and overcome the performance deterioration caused by the identi?ed sensor or actuator fault.



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