



Issues of Fault Diagnosis for Dynamic Systems

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Since the time our first book *Fault Diagnosis in Dynamic Systems: The Theory and Applications* was published in 1989 by Prentice Hall, there has been a surge in interest in research and applications into reliable methods for diagnosing faults in complex systems. The first book sold more than 1,200 copies and has become the main text in fault diagnosis for dynamic systems. This book will follow on this excellent record by focusing on some of the advances in this subject, by introducing new concepts in research and new application topics. The work cannot provide an exhaustive discussion of all the recent research in fault diagnosis for dynamic systems, but nevertheless serves to sample some of the major issues. It has been valuable once again to have the co-operation of experts throughout the world working in industry, government establishments and academic institutions in writing the individual chapters. Sometimes dynamical systems have associated numerical models available in state space or in frequency domain format. When model information is available, the quantitative model-based approach to fault diagnosis can be taken, using the mathematical model to generate analytically redundant alternatives to the measured signals. When this approach is used, it becomes important to try to understand the limitations of the mathematical models i. e. , the extent to which model parameter variations occur and the effect of changing the systems point of operation.

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