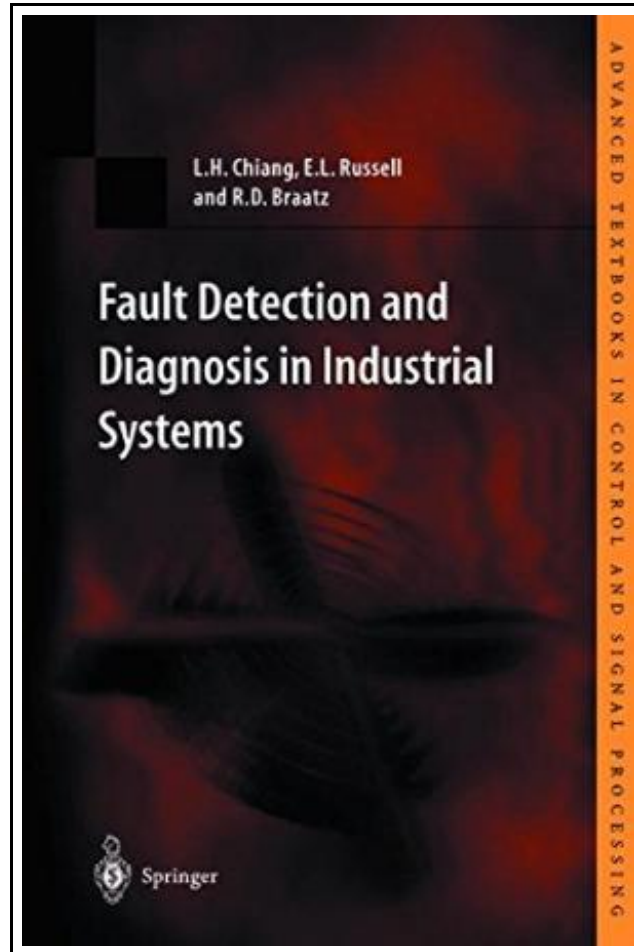


Fault Detection and Diagnosis in Industrial Systems



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Reviews

The publication is easy in read through preferable to fully grasp. It is writter in simple phrases instead of hard to understand. You will not sense monotony at at any moment of your respective time (that's what catalogs are for concerning if you request me).

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FAULT DETECTION AND DIAGNOSIS IN INDUSTRIAL SYSTEMS



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Book Condition: New. Publisher/Verlag: Springer, Berlin | Early and accurate fault detection and diagnosis for modern chemical plants can minimise downtime, increase the safety of plant operations, and reduce manufacturing costs. The process monitoring techniques that have been most effective in practice are based on models constructed almost entirely from process data. The goal of the book is to present the theoretical background and practical techniques for data-driven process monitoring. Process monitoring techniques presented include: Data-driven methods - principal component analysis, Fisher discriminant analysis, partial least squares and canonical variate analysis; Analytical Methods - parameter estimation, observer-based methods and parity relations; Knowledge-based methods - causal analysis, expert systems and pattern recognition. The text demonstrates the application of all of the data-driven process monitoring techniques to the Tennessee Eastman plant simulator - demonstrating the strengths and weaknesses of each approach in detail. This aids the reader in selecting the right method for his process application. Plant simulator and homework problems in which students apply the process monitoring techniques to a non-trivial simulated process, and can compare their performance with that obtained in the case studies in the text are included. A number of additional homework problems encourage the reader to implement and obtain a deeper understanding of the techniques. The reader will obtain a background in data-driven techniques for fault detection and diagnosis, including the ability to implement the techniques and to know how to select the right technique for a particular application. | I. Introduction.- 1. Introduction.- Process Monitoring Procedures.- Process Monitoring Measures.- Process Monitoring Methods.- Book Organization.- II. Background.- 2. Multivariate Statistics.- Data Pretreatment.- Univariate Statistical Monitoring.- T2 Statistic.- Thresholds for the T2 Statistic.- Data Requirements.- Homework Problems.- 3. Pattern Classification.- Discriminant Analysis.- Feature Extraction.- Homework Problems.- III. Data-driven Methods.- 4. Principal Component Analysis.- Principal Component Analysis.- Reduction Order.- Fault Detection.-...



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