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The main objective of Data-Driven and Model-Based Methods for Fault Detection and Diagnosis is to develop techniques that improve the quality of fault detection and then utilize these developed techniques to enhance monitoring various chemical and environmental processes. The book provides

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both the theoretical framework and technical solutions.

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In general, the common fault diagnosis approaches can be classified into four types, including a model-based approach, signal-based approach, data-driven based approach and hybrid approach . The data-driven methods require a large volume of historical data to establish the fault pattern recognition model of a system without priori knowledge.

Enhanced data-driven fault diagnosis for machines with ...

In this paper, a new data-driven fault diagnosis method based on compressed sensing (CS) and improved multi-scale network (IMSN) is proposed to recognize and classify the faults in rotating...

Data-driven fault diagnosis method based on compressed ...

All the discussed data-driven PM–FD methods, including PCA, DPCA, PLS, TPLS, MPLS, FDA, ICA, MICA and SAP, will be applied to TE process for a comparison study. Two generally used indices, i.e. fault detection rate (FDR) and false alarm rate (FAR), are mainly considered here for evaluating PM–FD performance [6] , [32] , [58] .

A comparison study of basic data-driven fault diagnosis ...

IEEE Access invites manuscript submissions in the area of Data-Driven Monitoring, Fault Diagnosis and Control of Cyber-Physical Systems. A cyber-physical system (CPS) is a system with intense interaction of entities in the physical world and the abstract information.

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Abstract: With the tremendous revival of artificial intelligence, predictive maintenance (PdM) based on data-driven methods has become the most effective solution to address smart manufacturing and industrial big data, especially for performing health perception (e.g., fault diagnosis and remaining life assessment). Moreover, because the existing PdM research is still in primary experimental stage, most works are conducted utilizing several open-datasets, and the combination with specific ...

Data-Driven Methods for Predictive Maintenance of ...

One of the common ways to perform data-driven fault diagnosis is to employ statistical models, which can classify the data into nominal (healthy) and a fault class or distinguish among different ...

Data-Driven Open Set Fault Classification and Fault Size ...

Data-driven methods provide a convenient alternative to these problems. In data-driven approach, we use operational data of the machine to design algorithms that are then used for fault diagnosis and prognosis. The operational data may be vibration data, thermal imaging data, acoustic emission data, or something else.

Data-Driven Machinery Fault Diagnosis | Personal Project ...

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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.

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