

## AUXILIARY SIGNAL DESIGN IN FAULT DETECTION AND DIAGNOSIS

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Auxiliary signal design in fault detection and diagnosis Fault-detection and diagnosis schemes for systems represented by linear MIMO stochastic models are developed analytically, with a focus on on the design and application of auxiliary signals.

Auxiliary Signal Design in Fault Detection and Diagnosis ...

The object of this book is to present a systematic method for auxiliary signal design in fault detection and diagnosis. It covers systems that can be represented by linear or linearised multiple-input, multiple-output stochastic models.

Auxiliary signal design in fault detection and diagnosis ...

An auxiliary signal is an input signal that enhances the identifiability of a model based on input-output observations. Assuming that the normal and the failed behaviors of a process can be modeled by two linear uncertain systems, failure detectability can be seen as a multi-model identification problem.

Auxiliary Signal Design in Fault Detection and Diagnosis ...

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The object of this book is to present a systematic method for auxiliary signal design in fault detection and diagnosis. It covers systems that can be represented by linear or linearised multiple-input, multiple-output stochastic models. It is very illustrative since each new concept is demonstrated.

Auxiliary Signal Design for Active Fault Detection Based ...

In this paper, a new active fault detection method based on set-membership is proposed. Similar to the existing methods, the normal and faulty modes of the system are assumed to be two linear discrete time-invariant systems with bounded energy uncertainty, which is represented by

a bounded ellipsoid under the framework of set-membership.

#### **Auxiliary signal design for robust active fault detection ...**

The auxiliary signal design problem for robust multi-model fault detection studied in Nikoukhah, Campbell, Horton, and Delebecque (2002), and later in Campbell and Nikoukhah (2004) assumes that there are two candidate models. The objective is to find an auxiliary signal which minimizes a norm that can guarantee on-line identification of the correct model. In practical applications the Euclidean norm is often used which corresponds to the energy of the signal. The approach of

#### **Auxiliary signal design in fault detection and diagnosis ...**

The object of this book is to present a systematic method for auxiliary signal design in fault detection and diagnosis. The book can also be used as a tutorial material for final year undergraduates, especially those who work on a project related to test signal designs, fault detection or modeling.

#### **Auxiliary Signal Design in Fault Detection and Diagnosis ...**

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#### **Auxiliary signal design in fault detection and diagnosis**

Abstract Fault-detection and diagnosis schemes for systems represented by linear MIMO stochastic models are developed analytically, with a focus on on the design and application of auxiliary signals.

#### **Asynchronous auxiliary signal design for failure detection ...**

Abstract: Fault detection and identification (FDI) are important tasks in most modern industrial systems and processes. A variety of approaches both active and passive have been investigated. A test signal or input is used in an active approach. Usually in the active approach the same time window is