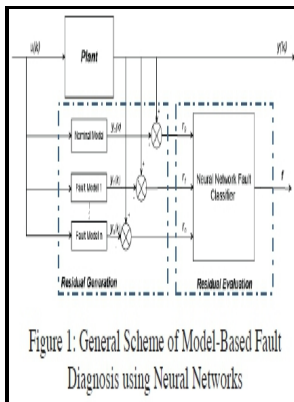


Model-based fault diagnosis for mechatronic systems.

- - Model



Description: -

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Model

The fault detection method is also validated at the real test bench, as a first step. In Simulationen wurde die Unwuchterkennung sowohl am Modell des Prüfstandes als auch an dem eines Flugtriebwerks untersucht. This holds especially for safety related processes like aircraft, trains, automobiles, power plants and chemical plants.

Model

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Failure Analysis of Mechatronic Systems

Since the effects of errors f_1 , f_2 , f_i may not differ from one another in the error detection, a system characteristic of detectability is by far less stringent than a system characteristic of identifiability. This method is applied to the fault diagnosis of gearbox and proved that accurate and efficiency of the modeling method have greatly improved by the experiment results.

Model

Because they do not give a deeper insight and usually do not allow a fault diagnosis, model-based methods of fault-detection were developed by using input and output signals and applying dynamic process models.

Advantages and Disadvantages of Mechatronics System

The example computer program according to the present invention having program code is provided for carrying out all steps of the method according to the present invention, if the computer program is run on a computer or a corresponding arithmetic unit, in particular in the diagnostic system of the present invention.

Model

The MIT Technology Review Magazine awarded him in 2003 to the Top Ten representatives of emerging Technologies for the field of Mechatronics.

MODEL BASED FAULT DIAGNOSIS TECHNIQUES DESIGN SCHEMES ALGORITHMS AND TOOLS

Feature-based monitoring methods use suitable features of the sensor signals to identify the operation conditions.

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