

Fault Detection Schemes for Switched Systems

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Reviews

I just started off reading this article publication. It is definitely simplistic but surprises in the 50 percent of your ebook. You are going to like how the author create this publication. (Clint Labadie)

FAULT DETECTION SCHEMES FOR SWITCHED SYSTEMS



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Shaker Verlag Okt 2013, 2013. Buch. Book Condition: Neu. 211x146x15 mm. Neuware - The complexity of modern automated and technical processes is continuously growing due to the increasing demands for higher system performance and product quality. Parallel to these demands, the safety and reliability in systems are needed. Therefore, process monitoring and fault diagnosis are becoming an ingredient of automatic modern systems. Model-based fault detection technique is one of the approaches, which has proven its efficiency and now is fully integrated into many successful applications. This approach consists mainly of three steps, which are: residual generation, evaluation process and threshold determination. The purpose of residual generation is to produce the so-called residual signal by comparing the process outputs with their estimates. The deviation of residual signal from zero is an indication of fault occurrence. However, due to the unknown inputs (process disturbances, measurements noises) and model uncertainties need an evaluation process for residual signal. The faults in systems can be detected by comparing the evaluated residual signal with a threshold. Determination of the threshold is a critical task in fault detection, which is gene rally determined by the bounds of unknown inputs and model uncertainties. In this thesis, model-based fault detection approach is applied to linear switched systems. A switched linear system is a hybrid system consists of several linear sub-models and a rule which orchestrates the switching between them. This type of system provides a framework which bridges the linear systems and the complex and/or uncertain systems. The profit of utilizing switched linear systems is that, it is relatively easy to be handled as many powerful tools from linear analysis are available to cope with these...

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