



Fault Detection Schemes for Switched Systems

By Ali Abdo

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 the residual signal is nonzero in fault-free operation. Therefore, to extract the occurrence of faults in the existence of disturbances 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...



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