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Today, one of the most critical issues on the automatic system design is the system reliability and dependability. Consequently, either fault detection and isolation (FDI) problem or fault-tolerant control (FTC) problem has become a necessary ingredient of modern automatic control system design.

A fault-tolerant design enables a system to continue its intended operation, possibly at a reduced level, rather than failing completely, when some part of the system fails. The term is most commonly used to describe computer systems designed to continue more or less fully operational with, perhaps, a reduction in throughput or an increase in response time in the event of some partial failure.

*Fault-tolerant System design | Rim Khazhin* Fault Tolerant Control Systems

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A Fault-Tolerant Control (FTC) system is defined as a control system with fault-tolerant capability. The main objective of the FTC is to maintain the specified operations of a system under consideration, and to give operators (or automatic monitoring systems) enough time to repair the damage or take alternative measures to avoid catastrophe (Chen and Patton, 1999).

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*What is Fault-Tolerant Control? - ScienceDirect*

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devices such as flip-flops and adders. Later work considered units such as registers or blocks of memory. With today's LSI units, it is no longer appropriate to be concerned with such small subunits.

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This paper deals with Fault Tolerant Control (FTC) strategy for polytopic Linear Parameter Varying (LPV) systems. The main contribution consists in the design of a Static Output Feedback (SOF) dedicated for such systems in the presence of multiple actuator

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- an active suspension system demonstrating application in whole large-scale systems by splitting into subsystems. Actuator and sensor faults are accommodated within the control-law design and the integration of fault diagnosis models in the FTC systems described. Commentary is given on the recent results presented.

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