

## Fault Diagnosis Systems An Introduction From Fault Detection To Fault Tolerance

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This book gives an introduction into the field of fault detection, fault diagnosis and fault-tolerant systems with methods which have proven their performance in practical applications. It guides the reader in a structured tutorial style: supervision methods, reliability, safety, system integrity and related terminology;

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Introduction. Supervision, health-monitoring, fault detection, fault diagnosis and fault management play an increasing role for technical processes and vehicles, in order to improve reliability, availability, maintenance and life-time. For safety-related processes fault-tolerant systems with redundancy are required in order to reach comprehensive system integrity.

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A fault diagnosis method is based on an expert system that uses the accumulated experience of experts within a long-term practice to establish a knowledge base and to design a set of computer programs to simulate reasoning and the decision-making process of human experts to conduct fault diagnosis. The expert system is composed of a knowledge base, an inference engine, an integrated database, a man-machine interface, and an interpretation module.

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@inproceedings{Isermann2006FaultdiagnosisS, title={Fault-diagnosis systems : an introduction from fault detection to fault tolerance}, author={R. Isermann}, year={2006} } R. Isermann Published 2006 Engineering Fundamentals.- Supervision and fault management of processes - tasks and terminology ...

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