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Fault detection consists of recognising that a fault has happened, whilst fault diagnosis regards the location of the fault and its identification. Advanced methods of fault detection are based on mathematical signal and process models and on methods of system theory and process modelling to generate fault symptoms.

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control systems in high-cost mechatronic and safety-critical processes, the field of supervision (or monitoring), fault detection and fault diagnosis plays an important role.

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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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