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Mechatronic and Innovative Applications

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About the ebook

This e-book explains the fundamentals of designing fault tolerant mechatronic systems from the first principles and how to embed intelligence into them. Examples in this volume are not restricted to production lines, but extend to extreme safety based systems such as space and underwater robotics, autonomous transportation systems, aviation systems and medical robots.

Contents

- ▶ Mechatronic Vehicle Braking Systems
- ▶ Development of Low Cost Electromyography (EMG) Controlled Prosthetic Hand
- ▶ Control of Free and Constrained Motion of a C5 Parallel Robot
- ▶ Optimal Mechatronics for Driving Simulator Design
- ▶ Robust Monitoring of an Omnidirectional Mobile Robot
- ▶ Bond Graph Model-Based Fault Detection and Isolation : Application to Intelligent Autonomous Vehicles
- ▶ Structural Reconfigurability Analysis for an Over-Actuated Electric Vehicle

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