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Fault-Tolerant Control of Magnetic Levitation System Based on State Observer in High Speed Maglev Train Abstract: In recent years, the high-speed rail train has achieved great progress, but the wheel-rail relationship and the catenary-pantograph relationship are the bottlenecks to further increase the speed.

Fault-Tolerant Control of Magnetic Levitation System Based ...
The fault-tolerant control scheme utilizes grouping of currents to reduce the required number of controller outputs. Reduced current distribution matrices can be calculated with the constraint conditions of the controller outputs and the necessary condition for linearization.

The Fault-Tolerant Control of Magnetic Bearings With ...
The fault-tolerant controller has been designed using the nonlinear fuzzy logic control because three-pole magnetic bearing is highly nonlinear. The fault-tolerant fuzzy controller for three-pole magnetic bearing is designed by first obtaining the required values of currents to be supplied to the coils assuming that all the coils are active.

Fault-tolerant control of three-pole active magnetic ...
This paper documents an investigation into fault tolerant design in three dimensional magnetic levitation systems. During the project a levitation system utilising magnetic repulsion was designed, mathematically modelled, simulated in Matlab Simulink, built in real life and then programmed using C language. A strong

A FAULT-TOLERANT CONTROL APPROACH TO MAGNETIC LEVITATION
Fault tolerant control can accommodate the component faults in a control system such as sensors, actuators, plants, etc. This dissertation presents two fault tolerant control schemes to accommodate the failures of power amplifiers and sensors in a magnetic suspension system. The homopolar magnetic bearings are biased by permanent magnets

FAULT-TOLERANT CONTROL OF HOMOPOLAR MAGNETIC BEARINGS AND ...
Fault-Tolerant Control of a Magnetic Levitation System Using Virtual-Sensor-Based Reconfiguration **Raheleh Nazari † , Alain Yetendje, Maria M. Seron** **Abstract—In this paper, a fault tolerant ...**

Fault-Tolerant Control of a Magnetic Levitation System ...
Magnetic Bearingless Motors With Open-Circuited Phases: Fault-Tolerant Controllability and Its Verification **Xiao-Lin Wang, Qing-Chang Zhong, Senior Member, IEEE, Zhi-Quan Deng, and Shen-Zhou Yue** **Abstract—The fault-tolerant control of bearingless motors is vi-tal for their safe and robust operation. In this paper, the operation**

Current-Controlled Multiphase-Si-oe Permanent-Magnetic ...
A fault tolerant control scheme is developed for an energy efficient homopolar magnetic bearing. The homopolar bearing actuator using the fault tolerant control algorithm can preserve the same linearized magnetic forces by redistributing the remaining currents even if some components such as coils or power amplifiers suddenly fail.

Fault-tolerance-of-homopolar-magnetic-bearings - ScienceDirect
The Fault-Tolerant Control of Magnetic Bearings With Reduced Controller Outputs. **J. Dyn. Sys., Meas., Control** (June, 2001) **Optimized Realization of Fault-Tolerant Heteropolar Magnetic Bearings. J. Vib. Acoust** (July, 2000) **Related Chapters. QP Based Encoder Feedback Control.**

Passive-Fault-Tolerance-for-a-Magnetic-Bearing-Under-PID ...
Fault tolerance is the property that enables a system to continue operating properly in the event of the failure of (or one or more faults within) some of its components. If its operating quality decreases at all, the decrease is proportional to the severity of the failure, as compared to a naively designed system, in which even a small failure can cause total breakdown.

Fault-tolerance - Wikipedia
2. Fault-tolerant control strategies. Faults that are external to the magnetic bearing/control system do not generally require any reconfiguration of the control system itself although some adjustment or adaptation of the control algorithm may improve operation.

Towards-fault-tolerant-active-control-of-rotor-magnetic ...
fault-tolerant control system (FTCS) model in mag-netic bearings. **Arslan A. A. and Khalid M. H.** presented a comprehensive state-of-the-art review of FTCS with the latest advances and applications in [17]. Active FTCS (AFTCS) consists of Fault Detection and Iso-lation (FDI) module [18], a reconfiguration mecha-nism and a reconfigurable controller [19,20]. Espe-

Optimization of bias current coefficient in the fault ...
This paper considers a control system design for a rotor-magnetic bearing system that integrates a number of fault-tolerant control methods. A survey is undertaken of possible system failure modes which are classified according to whether they are internal or external to the magnetic bearing control system.

Towards-fault-tolerant-active-control-of-rotor-magnetic ...
Position stiffnesses and voltage stiffnesses are calculated for the fault-tolerant magnetic bearings. Fault-tolerant control of a horizontal rigid rotor supported on multiple-coil failed magnetic bearings including large path reluctances is simulated to investigate the effect of path reluctances on imbalance response.

Fault-tolerance-of-magnetic-bearings-with-material-path ...
This fault-tolerant control usually reduces load capacity because the redistribution of the magnetic flux which compensates for the failed coils leads to premature saturation in the stator or ...

Fault-tolerance-of-homopolar-magnetic-bearings | Request PDF
The proposed systematic framework combines linear quadratic gaussian control, fault tolerant control and multiobjective optimisation. The e cacy of the proposed framework is shown via appropriate simulations on an electro-magnetic suspension system. **Keywords:** Optimised sensor Configurations; Sensor fault tolerance; Electromagnetic suspension ...

Optimised configuration of sensors for fault-tolerant ...
(2012). Optimised configuration of sensors for fault tolerant control of an electro-magnetic suspension system. **International Journal of Systems Science: Vol. 43, No. 10, pp. 1785-1804.**

Optimised configuration of sensors for fault-tolerant ...
In order to meet the fault tolerant requirement of the PMSM in aerospace application, extensive research work has been reported on the fault tolerant PMSM (FTPMSM) design, which can be divided into two categories: the multiple sets of three-phase windings approach and the multiple single-phase windings approach. 4 For the multiple sets of three-phase windings approach, **Bianchi et al. 7** proposed a dual three-phase PMSM, which is composed of two motors on the same shaft. Each motor is a three ...