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Magnetic Bearings With
Force

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Control - Set-membership ...

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Art and Science of Breath - James
Nestor | Float Conference 2018
~~Part 4. MAGNETISM: Magnetic
attraction \u0026amp; repulsion do not
exist. Hyperboloids \u0026amp;~~

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re:Invent 2017: Deep Dive on
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Magnetic Bearings 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

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~~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

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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 ...~~

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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

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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

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design in three dimensional
magnetic levitation systems.

Force
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

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~~A FAULT TOLERANT CONTROL
APPROACH TO MAGNETIC
LEVITATION~~

Fault tolerant control can
accommodate the component faults
in a control system such as

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Magnetic Bearings, 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

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Tolerant Control Of
Magnetic Bearings With
~~FAULT TOLERANT CONTROL
OF HOMOPOLAR MAGNETIC
BEARINGS AND ...~~

Fault-Tolerant Control of a
Magnetic Levitation System Using
Virtual-Sensor-Based
Recon fi guration Raheleh Nazari † ,

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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-~~

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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 vital for their safe and
robust operation. In this paper, the

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~~Current Controlled Multiphase
Slice Permanent Magnetic ...~~

A fault tolerant control scheme is developed for an energy efficient homopolar magnetic bearing. The homopolar bearing actuator using

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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~~

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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,

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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

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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

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failure can cause total breakdown.

Force

~~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

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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

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(Magnetic Bearings) model in mag-netic bearing s. 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 Isolation (FDI) module [18], a

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reconfiguration mechanism 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-

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Tolerant Control Of
Magnetic bearing system with
Force 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.

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~~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

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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~~

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~~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...

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~~Fault tolerance of homopolar
magnetic bearings | Request PDF~~

The proposed systematic framework combines linear quadratic gaussian control, fault tolerant control and multiobjective optimisation. The efficacy of the proposed framework is shown via

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appropriate simulations on an electro-magnetic suspension system. Keywords: Optimised sensor Con fi gurations; Sensor fault tolerance; Electromagnetic suspension ...

~~Optimised configuration of sensors~~

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~~for fault tolerant ...~~
Magnetic Bearings With

(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.

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~~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

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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

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of two motors on the same shaft.
Each motor is a three ...

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