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# STABILITY LIMITS OF A PD CONTROLLER FOR A FLYWHEEL SUPPORTED ON RIGID ROTOR AND MAGNETIC BEARINGS (PAPERBACK)



Stability Limits of a PD Controller  
for a Flywheel Supported on Rigid  
Rotor and Magnetic Bearings

NASA Technical Reports Server  
(NTRS), et al., Albert F. Kascak

Bibliogov, United States, 2013. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Active magnetic bearings are used to provide a long-life, low-loss suspension of a high-speed flywheel rotor. This paper describes a modeling effort used to understand the stability boundaries of the PD controller used to control the active magnetic bearings on a high speed test rig. Limits of stability are described in terms of allowable stiffness and damping values which result in stable levitation...

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- Authored by Albert F Kascak
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