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SIX DEGREES OF FREEDOM VIBRATION ISOLATION USING ELECTROMAGNETIC SUSPENSION

Sang-il Lee¹, Daniel B. DeBra², Peter F. Michelson³,
Robert C. Taber⁴, John C. Price⁴

ABSTRACT

Experimental data are presented for modelling an electromagnet. Control laws are considered with and without flux feedback and with position and orientation information of the suspended body. Base motion and sensor noise are the principal disturbances. Proper selection of the geometrical operating point minimizes the passive coupling above the bandwidth of the control and filtering can attenuate the high frequency content of sensor noise. Six electromagnets are arranged in a configuration which optimizes the load support and provides control over all six degrees of freedom of the suspended body. The design is based on experimental data generated with a specially designed test facility. Application for suspension of a gravity wave antenna is discussed.

INTRODUCTION

Isolation from base motion is frequently required. On the ground, precise instruments must be isolated from the cultural and natural seismic motion of the earth. In orbit, the motion of a spacecraft may be significant due to moving machinery, thrusters or the presence of man [1,2]. Many techniques are available. Mechanical devices such as coil springs, air cushions or compliant materials offer the advantage of simplicity and reliability. By using stacks of such devices, rapid attenuation with frequency can be achieved. But the mechanical link remains and when internal resonances, cross coupling of degrees of freedom and nonlinearity exist, the idealized attenuation hoped for is not always achieved. Passive or active feedback techniques using magnetic or electrostatic fields can remove the mechanical link and permit an improved degree of isolation. Examples include the electrostatic gyro [3] which can achieve spin down time constant of hundreds of years, passively suspended superconducting proof masses for a principle of equivalence experiment [4] and an eddy current suspension for gradiometers [5] and many forms of active and passive magnetic suspension reviewed by Jayawant [6]. An interesting variant is to shield a proof mass on orbit and use it as a reference thus producing a drag free satellite [7], which has achieved average disturbances of less than $5 \times 10^{-12} \text{g}$.

For an active isolation system, the suspended body follows its reference within the bandwidth of the feedback control. Thus isolation only occurs for frequencies above the bandwidth (natural frequency) of the control. Though the mechanical link is gone, displacement dependence of the force may remain and produces coupling which cannot be influenced by the feedback. Thus one desires to design an actuator which has no spatial dependence on force or has a local extremum so that the small-motion dependence is small. We will give an example later. The force used for suspension is generated as a function of measurements. These measurements are noisy and produce a component of force which is a disturbance. But the frequency content of this disturbance is under the control of the designer by appropriate filtering.

Certainly the most exquisitely sensitive instruments ever developed are the gravity wave antennas. Current bar antennas are capable of detecting strains of 10^{-18} and it is hoped bars can reach 10^{-20}

1. Graduate student, Dept. of Mechanical Engineering, Stanford University
2. Professor, Dept. of Aeronautics and Astronautics, Stanford University
3. Assistant Professor, Dept. of Physics, Stanford University
4. Research Associate, High Energy Physics Laboratory, Stanford University

Six Degrees Of Isolation

Yicheng Fang

Six Degrees Of Isolation:

Main Rotor Six Degree-of-freedom Isolation System Analysis ,1981 *Advances in Industrial Machines and Mechanisms* Y. V. D. Rao,C. Amarnath,Srinivasa Prakash Regalla,Arshad Javed,Kundan Kumar Singh,2021-07-20 This book presents the select proceedings of the 1st International 13th National Conference on Industrial Problems on Machines and Mechanism IPRoMM 2020 and examines issues in the design manufacture and performance of mechanical and mechatronic elements and systems that are employed in modern machines and devices The topics covered include robotics industrial CAD CAM systems mechatronics machinery associated with conventional and unconventional manufacturing systems material handling and automated assembly mechanical and electro mechanical systems of modern machinery and equipment micro devices compliant mechanisms hybrid electric vehicle and electric vehicle mechanisms acoustic and noise control This book also discusses the recent advances in the integration of IoT and Industry 4.0 in mechanism and machines The book will be a valuable reference for academicians researchers and professionals interested in the design and development of industrial machines

Six Degree-of-freedom LIVE Isolation Systems, Part 1 ,1986 **Six Degrees of Isolation** Craig Emmel,2014-10-20 Emma is a talented young artist disturbed by nightmare images that she can only quiet by painting These haunting visions become inspiration for collections so Emma turns these troubles into a burgeoning career When her boyfriend slashes a painting adding a detail that Emma had dreamed but not rendered he brings her waking world into alignment with her dreaming life Emma questions whether she paints what she dreams or dreams what she will have painted Frightened by this new possibility Emma seeks a counselor But after months of talk therapy she has only talked her way around the truth When Emma's boyfriend threatens other artwork he winds up in the emergency room and she meets a new man as troubled by his history as she is by hers He completes another dreaming image one that both frightens and attracts her Emma must choose whether to confront the sum of their combined darkness forging an intimate connection or remain isolated living in a half awake world denying the truth of her past and thus the promise of her future But does this new man manifest a dream or a nightmare

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