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Abstract. The Annular Suspension and Pointing System (ASPS) is a general purpose mount designed to provide orientation, mechanical isolation, and fine pointing for space experiments. The ASPS consists of two assemblies, the first being a set of two gimbals attached to a carrier spacecraft (e.g., Space Shuttle) and providing coarse pointing, and the second a magnetic vernier pointing and isolation assembly attached to the inner gimbal of the first assembly and providing fine pointing.

The Annular Suspension and Pointing System - ScienceDirect

The Annular Suspension and Pointing System (ASPS) developed by ' the Flight System division of Sperry Corporation* is a six-degree of freedom payload pointing system designed for use with the space shuttle. This magnetic suspension and pointing system provides precise controlled pointing in six-degrees of freedom, isolation of

Annular Suspension and Pointing System with Controlled DC ...

The Annular Suspension and Pointing System (ASPS) is a general purpose mount designed to provide orientation, mechanical isolation, and fine pointing for space experiments.

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~~The Annular Suspension and Pointing System – NASA/ADS~~

The Annular Suspension and Pointing (ASP) system for space experiments and predicted pointing accuracies An annular suspension and pointing system consisting of pointing assemblies for coarse and vernier pointing is described. The first assembly is attached to a carrier spacecraft (e.g., the space shuttle) and consists of an azimuth gimbal and an elevation gimbal which provide 'coarse' pointing.

~~NASA Technical Reports Server (NTRS)~~

The Annular Suspension and Pointing System is an experiment pointing mount designed for extremely precise 3 axis orientation of shuttle experiments. It utilizes actively controlled magnetic bearing to provide noncontacting vernier pointing and translational isolation of the experiment. The design of the system is presented and analyzed.

~~Design of the Annular Suspension and Pointing System (ASPS) ...~~

The Annular Suspension and Pointing System (ASPS) is a prototype of flight hardware for a high-accuracy space payload pointing mount. The long term project objective is to perform modifications and implement improvements to the existing ASPS in hopes of recommission. Also, new applications, will be investigated for this technology.

~~Annular Suspension and Pointing System (ASPS) magnetic ...~~

The Annular Suspension and Pointing System (ASPS) developed by the Flight System division of Sperry Corporation is a six-degree of freedom payload pointing system designed for use with the space shuttle.

~~Annular suspension and pointing system with controlled DC ...~~

Printed in Great Britain DESIGN OF THE ANNULAR SUSPENSION AND POINTING SYSTEM (ASPS) THROUGH DECOUPLING AND POLE PLACEMENT B. C. Kuo University of Illinois at Urbana-Champaign, IL 61803, U.S.A. and W. C. W. UN General Motors Research Laboratories, Warren, Michigan, U.S.A. (Received 21 May 1980; received for publication 14 July 1980) Abstract-This paper describes the decoupling and pole-placement design of the ASPS with continuous-data control and with digital control.

~~Design of the annular suspension and pointing system (ASPS) ...~~

The Annular Suspension and Pointing System (ASPS) is a general purpose mount designed to provide orientation, mechanical isolation, and fine pointing for space experiments.

~~The Annular Suspension and Pointing System – CORE~~

This paper presents the control system design for the Annular Suspension and Pointing System. Actuator sizing and configuration of the system are explained, and the control laws developed for linearizing and compensating the magnetic bearings, roll induction motor and gimbal torquers are given. Decoupling, feedforward and error compensation for the vernier and gimbal controllers is developed.

~~System design of the annular suspension and pointing ...~~

An annular suspension and pointing system consisting of pointing assemblies for coarse and vernier pointing is described. The first assembly is attached to a carrier spacecraft (e.g., the space shuttle) and consists of an azimuth gimbal and an elevation gimbal which provide 'coarse' pointing. The second or vernier pointing assembly is made up ...

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~~The Annular Suspension and Pointing (ASP) system ... CORE~~

The Annular Suspension and Pointing System (ASPS) may be attached to a carrier vehicle for orientation, mechanical isolation, and fine pointing purposes applicable to space experiments. It has subassemblies for both coarse and vernier pointing. A fourteen-degree-of-freedom simulation of the ASPS mounted on a Space Shuttle has yielded initial ...

~~The Annular Suspension and Pointing System /ASPS/ CORE~~

Format: Book, Government Document, EBook; LOC call number: TL521.3.C6 A3 no.3343 1980; Published: Washington, D.C. : National Aeronautics and Space Administration ...

~~Design of the Annular Suspension and Pointing System (ASPS ...~~

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~~Design of the Annular Suspension and Pointing System (ASPS ...~~

Control System Design of the Annular Suspension and Pointing System. David C. Cunningham , Thomas P. Gismondi and George W. Wilson ; Journal of Guidance and Control Vol. 3, No. 1 January 1980. The Annular Suspension and Pointing System.

~~Microvibrations Induced by a Cantilevered Wheel Assembly ...~~

The Annular Suspension and Pointing System (ASPS) is a precision payload pointing system designed for use on the space shuttle. In the early 1970's, NASA's Earth-Orbital Systems Technology group established a need to develop a multi-purpose experiment mounting platform

~~DESIGN AND IMPLEMENTATION OF A DIGITAL CONTROLLER FOR A ...~~

ASPS stands for Annular Suspension and Pointing System. Suggest new definition. This definition appears rarely and is found in the following Acronym Finder categories: Science, medicine, engineering, etc. See other definitions of ASPS. Other Resources:

~~ASPS - Annular Suspension and Pointing System | AcronymFinder~~

The Annular Suspension and Pointing System (ASPS) can provide high accurate fine pointing for a variety of solar-, stellar-, and Earth-viewing scientific instruments during space shuttle orbital missions. In this report, a detailed nonlinear mathematical model is developed for the ASPS/Space Shuttle system.

~~Nonlinear analysis and performance evaluation of the ...~~

It is Annular Suspension and Pointing System. Annular Suspension and Pointing System listed as ASPS Annular Suspension and Pointing System - How is Annular Suspension and Pointing System abbreviated?

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