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# acceleration sensitivity Accelerometer input axis angular

Kau, S.P. Boutelle, J. Lawdermilt, L

Div. of Space & Strategic Syst., Honeywell Inc., USA;

This paper appears in: Position Location and Navigation

Symposium, IEEE 2000

Meeting Date: 03/13/2000 -03/16/2000

Publication Date: 2000

Location: San Diego, CA , USA

On page(s): 449-456

References Cited: 2



Number of Pages: 534

### Postracti

strapdown system mechanization. The sensitivity of this the hypothesis, this sensitivity was calibrated by post flight hypothesized. While there was no effort to physically prove the laboratory. A theory of the error mechanism was accelerometer is discussed, and confirmed by spin tests in angular dynamics environment because of RIMU's accomplished with the accelerometer exposed to the full deployment velocity increment. The measurement is to be booster IMU, this incremental deployment velocity is angular velocity to the reentry body (RB) to assure a deployment mechanism to impart an attitude stabilizing flights. The Trident missile employs a pyrotechnic requirement on RIMU is the accurate measurement of the modeled in the Trident guidance computation. Hence, a key bus. Since it cannot be measured by the bus mounted proper atmosphere reentry angle. A linear velocity accelerometers as the inertial sensors. The Honeywell RIMU has performed reliably and accurately on several Trident GC1320 Ring Laser Gyros (RLG) and three Bell XI for the US Navy Trident system reentry bodies. The reentry increment is also imparted to push the RB away from the RIMU is a strapdown system consisting of three Honeywell inertial measurement unit (RIMU) is the result of this work Honeywell in 1991 to develop an instrumentation package The Lockheed Missiles and Space Division contracted

sensitivity, (4) a hypothesis of the error mechanism, and deployment velocity measurements observed in flight tests, process of RIMU flight data analysis, (2) anomalous units flown. This paper presents: (1) discussion of the the down range impact miss was accomplished in all RIMU already flown. Flight data were reprocessed with (5) post flight calibration and flight data reprocessing (3) investigative study leading to the discovery of the new compensation for this sensitivity. Effective improvement in reprocessing of spin test data archived for the RIMU units

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