

Small resonant targets used in conjunction with a microwave reflectometer to determine the deformation of the Hypersonic Inflatable Aerodynamic Decelerator (HIAD) during reentry are investigated. The reflectometer measures the distance to the targets and from this the HIAD deformation is determined. The HIAD is used by the Inflatable Reentry Vehicle Experiment (IRVE) which investigates the use of inflatable heat shields for atmospheric reentry. After several different microwave reflectometer systems were analyzed and compared it was determined that the most desirable for this application is the Frequency Doubling Target method.

Junior Hockey Guide 2001, Reflections on Simplicity (Pendle Hill Pamphlets Book 244), Basiswissen für Führungskräfte: Die Elemente erfolgreicher Organisation, Führung und Strategie (German Edition), Techniques of job search (Canfield publications in business communication), Zombies Don't Cry (A Living Dead Love Story),

Phase Determination from Zero Crossings of Sine waves motion of the Hypersonic Inflatable Aerodynamic Decelerator (HIAD) during.

Methods to determine the deformation of the IRVE Hypersonic Inflatable Aerodynamic Decelerator. Front Cover. William R. Young. National Aeronautics and Hypersonic Inflatable Aerodynamic Decelerators (HIADs) to enable future large . The HIAD geometry was determined by performing a thorough search .. stacked tori method was chosen, as was utilized on the IRVE-3 test vehicle . The shape morphing design requires the vehicle to be deformed, which.

Aeroshell designers have been driven to Hypersonic Inflatable Aerodynamic Decelerator (HIAD) technologies for the promise of entry Experiment (IRVE) " 3 flight project and the High Energy Atmospheric Reentry Test (HEART) There are many people who have helped me along the way to completing this thesis and my. See details and download book: Download Ebooks For Mac Methods To Determine The Deformation Of The Irve Hypersonic Inflatable Aerodynamic Decelerator.

One of the objectives of this test was to measure model deflections under. Photogrammetry of a Hypersonic Inflatable Aerodynamic Decelerator The views were then stitched together post-test to create a surface deformation profile . This paper describes how a commercial photogrammetry system was adapted to make.

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Abstract The inflatable aerodynamic decelerator (I Jinghui Guo, Guiping Lin, the effect of the static shape deformation on the hypersonic aerodynamics and of the Inflatable Reentry Vehicle Experiment (IRVE)-3 has further demonstrated the Here, we apply two methods that can be used to perform postflight analysis. Home; Free Download Ebooks Pdf Methods To Determine The Deformation Of The Irve Hypersonic Inflatable Aerodynamic Decelerator Rtf

During launch, the hypersonic inflatable aerodynamic decelerator (HIAD) is Dynamics of the Inflatable Re-entry Vehicle Experiment (IRVE).

understanding of controllability by characterizing how a HIAD responds to a set of

Hypersonic. Inflatable Aerodynamic Decelerators (HIADS) enable a reduction in the . control responses that cannot be determined through ground testing. .. Figure IRVE-4 Aeroshell Deformations at degree Angle of Attack. Morphing Hypersonic Inflatable Aerodynamic Decelerator (AIAA ) . Determination of the Deformed Structural Shape of HIADs from Photogrammetric Wind Tunnel Data (AIAA .. IRVE-3 Post-Flight Reconstruction (AIAA ) . element analysis techniques used to predict the deformation and stress fields of aeroshell inflatable structures under aerodynamic loads. In this paper supersonic and new technologies for hypersonic deceleration may be necessary. IRVE is a test flight of a stacked toroid inflatable decelerator concept.

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