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AIAA Atmospheric Flight Mechanics Conference 2 - 5 August 2010, Toronto, Ontario Canada AIAA 2010-7930 Hypersonic Vehicle Flight Dynamics With Coupled Aerodynamics And Reduced-order Propulsive Models Derek J. Dalle , Scott G. V. Frenndreisy, James F. Driscollz, Carlos E. S. Cesnikx ... Aeronautics And Astronautics, Inc., With Permission. Feb 7th, 2024

GAS VISCOSITY AT HIGH PRESSURE AND HIGH TEMPERATURE

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Theory Is Used To Develop Equations For The Aerodynamic Forces, Moments, And Stability Derivatives For Components Of Hypersonic Lift Ing Configurations. In Conjunction With The Equations, A Set Of Charts Is Presented To Enable Simple Determination Of The Aerodynamic Char Acteristics Of Swept Cylinders, Swept Wedges, Spherical Segments, And May 9th, 2024

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The Airframe Research And Technology (AR&T) Project, As One Of Six Projects In The HIA, Will Push The State-of-the-art In Airframe And Vehicle Systems For Low-cost, Reliable, And Safe Space Transportation. The Individual Technologies Within The Project Are Focused On Advanced, Breakthrough Technologies In Mar 11th, 2024

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And Low Altitude Of Flight.10 For Example, Terrestrial-based Radar Cannot Detect Hypersonic Weapons Until Late In The Weapon's Flight.11 Figure 1 Depicts The Differences In Terrestrial-based Radar Detection Timelines For Ballistic Missiles Versus Hypersonic Glide Vehicles. 4 P.L. 115-232, Section 2, Division A, Title II, §247. Mar 5th, 2024

Aerothermal Analysis And Design - A Hypersonic Application

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Materials Development For Hypersonic Flight Vehicles David E. Glass¹ NASA Langley Research Center, Hampton, VA 23693 Ray Dirling² SAIC, Fountain Valley, CA 92708 ... CC137EL Is A T300 Fabric-based Inhibited C-C And Has A Long History Of Use For Structural Applications. The Feb 17th, 2024

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Optimal Control Method In Modern Control Theory Cannot Be Used, Because It Depends On The Accurate State-space Model Of The Plant. Unlike The Control Ideas That Depend On The State-space Model, Active Disturbance Rejection Control (ADRC) (Han 1998) Offers A New And Inherently Robust Controller That Requires Very Little Information Of The Plant. Jan 2th, 2024

An Integrated Approach To Hypersonic Entry Attitude Control

Active Disturbance Rejection Control (ADRC)[12–15] Has A Unique Characteristic Of Actively Rejecting Both Internal And External Disturbances. Derived From The Well-known Proportional-integral-differential (PID) Control Theory, ADRC fills The Significant Gap Between Control Theory And Practice, And Shows Better Theoretical And Practical Feb 23th, 2024

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D Is The Vehicle's Drag Coefficient, A Is Its Effective Cross-sectional Area, M Is Its Mass, Q Is The Atmospheric Density, G Is The Acceleration Due To Gravity, R_E Is Earth's Radius, L/D Is The Vehicle's Lift-to-drag Ratio, And R Is The Vehicle's Roll Angle.²¹ We Calculate Atmospheric Density Using The 1976 U.S. Standard Atmosphere. Jun 18th, 2024

Multi-Discipline Modeling Of Complete Hypersonic Vehicles ...

B. Surface Pressure Modeling A Potentially Important Feature For Accurate Loads Prediction Of Hypersonic Configurations Is The Ability To Couple With Vehicle And Subsystem Dynamics. Due To The High Speed Nature Of The flow, It Is Assumed That The Vehicle And/or Subsystem Dynamics Are Quasi-steady Relative To The fluid Dynamics. Thus, A Local ... Mar 20th, 2024

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6 See: Dean Wilkening, "Hypersonic Weapons And Strategic Stability," Survival Volume 6, No. 5 (October-November 2019: 129-148. 7 Mark Lewis, "A Conversation With Dr. Mark Lewis On The Pentagon's Defense Modernization Prio Jun 10th, 2024

11. Hypersonic Aerodynamics - Virginia Tech

11-2 Configuration Aerodynamics 7/31/16 Our Discussion Will Conclude With A Summary Of The Flight Vehicles That Have Been Studied Extensively And Sometimes Even Flown. Our Interest Is In The Lessons Learned From These Configurations. The X-15, Shown In Figure 11-1, I Apr 10th, 2024

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Aerodynamics Of Various Vehicle Geometries Can Be Obtained. Newtonian Aerodynamic Theory Is An Excellent Approximation For The Conceptual Design Of Slender Bodies In Which The Shock Wave Is In The Vicinity Of The Surface Of The Jun 5th, 2024

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