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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. Fren Dreisy, James F. Driscollz, Carlos E. S. Cesnikx ... Aeronautics And Astronautics, Inc., With Permission. Jan 2th, 2024

GAS VISCOSITY AT HIGH PRESSURE AND HIGH TEMPERATURE

GAS VISCOSITY AT HIGH PRESSURE AND HIGH TEMPERATURE A Dissertation By
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Equations And Charts For The Evaluation Of The Hypersonic ...

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
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Airframe Research And Technology For Hypersonic ...

The Airframe Research And Technology (AR&T) Project, As One Of Six Projects In
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Hypersonic Weapons: Background And Issues For Congress

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. Jan 1th, 2024

Aerothermal Analysis And Design - A Hypersonic Application

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Materials Development For Hypersonic Flight Vehicles

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 Apr 2th, 2024

Active Disturbance Rejection Control For Hypersonic ...

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 1th, 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 Mar 2th, 2024

Modeling The Performance Of Hypersonic Boost-Glide Missiles

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. Feb 1th, 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 ... Jan 2th, 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 Feb 2th, 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, | Apr 2th, 2024

Analytic Hypersonic Aerodynamics For Conceptual Design Of ...

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 Apr 1th, 2024

Assessment Of Rarefied Hypersonic Aerodynamics ...

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Addressing The Challenges Of The Design Of Hypersonic ...

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All Of The Physics Involved And Their Interaction Aerothermodynamics, Struct Apr 1th, 2024

Nonlinear Control Of An Uncertain Hypersonic Aircraft ...

Nonlinear Control Design For The Hypersonic Aircraft Model. As We Will Show In This Paper, The Advantage ... Composition, And Function Approximation Are Applied To Transform The Original Nonlinear Aircraft Model Into Polynomial Nonlinear Feb 1th, 2024

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