

Hypersonics, Volume II

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ASCE Publications

Psc Progress In Scientific Computing Bd 1 Defining The Hypersonic Environment

Bertin



Psc Progress In Scientific Computing Bd 1 Defining The Hypersonic Environment:

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BERTIN,GLOWINSKI,PERIAUX,2012-11-28 The task of defining the aerothermodynamic environment for a vehicle flying through the air at hypersonic speeds offers diverse challenges to the designer He must integrate a wide variety of scientific and technical disciplines blending mathematical modeling computational methods and experimental measurements Many of the manned reentry vehicles are relatively blunt or fly at very high angles of attack so that the drag is relatively large and enter the atmosphere at a relatively low entry angle As a result the hypersonic deceleration occurs at very high altitudes Because the conversion of kinetic energy to internal energy modes occurs in a low density environment the flow field chemistry is an important consideration Experiments on the U S Space Shuttle demonstrated the importance of nonequilibrium flow and surface catalyticity on the heating to the vehicle To determine the aerothermodynamic environment of other vehicles operating hypersonically at very high altitudes e g the Aero Assisted Space Transfer Vehicle the designer may have to consider viscous inviscid interactions and the modeling of noncontinuum flows Configurations that have a relatively high ballistic coefficient such as slender reentry vehicles and reenter the atmosphere at relatively high angles of attack experience severe heating rates and high dynamic pressures but only for a short period of time For these vehicles continuum flow models incorporating equilibrium chemistry are reasonable Hypersonics Bertin,1989-01-01

Hypersonics Bertin,1989-01-01 *Advances in Hypersonics* BALLMAN,BERTIN,PERIAUX,1992-05-01 These three volumes entitled *Advances in Hypersonics* contain the Proceedings of the Second and Third Joint US Europe Short Course in Hypersonics which took place in Colorado Springs and Aachen The Second Course was organized at the US Air Force Academy USA in January 1989 and the Third Course at Aachen Germany in October 1990 The main idea of these Courses was to present to chemists computer scientists engineers experimentalists mathematicians and physicists state of the art lectures in scientific and technical disciplines including mathematical modeling computational methods and experimental measurements necessary to define the aerothermodynamic environments for space vehicles such as the US Orbiter or the European Hermes flying at hypersonic speeds The subjects can be grouped into the following areas Physical environments configuration requirements propulsion systems including airbreathing systems experimental methods for external and internal flow theoretical and numerical methods Since hypersonic flight requires highly integrated systems the Short Courses not only aimed to give in depth analysis of hypersonic research and technology but also tried to broaden the view of attendees to give them the ability to understand the complex problem of hypersonic flight Most of the participants in the Short Courses prepared a document based on their presentation for reproduction in the three volumes Some authors spent considerable time and energy going well beyond their oral presentation to provide a quality assessment of the state of the art in their area of expertise as of 1989 and 1991 Hypersonics II ,1992-05-01 **Advances in Hypersonics**

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Computation and Measurement of Hypersonic Flows John J. Bertin, Jacques Periaux, R. Glowinski, 1989 **Advances in Hypersonics** John J. Bertin, 1991-12 These three volumes entitled *Advances in Hypersonics* contain the Proceedings of the Second and Third Joint US Europe Short Course in Hypersonics which took place in Colorado Springs and Aachen The Second Course was organized at the US Air Force Academy USA in January 1989 and the Third Course at Aachen Germany in October 1990 The main idea of these Courses was to present to chemists computer scientists engineers experimentalists mathematicians and physicists state of the art lectures in scientific and technical disciplines including mathematical modeling computational methods and experimental measurements necessary to define the aerothermodynamic environments for space vehicles such as the US Orbiter or the European Hermes flying at hypersonic speeds The subjects can be grouped into the following areas Physical environments configuration requirements propulsion systems including airbreathing systems experimental methods for external and internal flow theoretical and numerical methods Since hypersonic flight requires highly integrated systems the Short Courses not only aimed to give in depth analysis of hypersonic research and technology but also tried to broaden the view of attendees to give them the ability to understand the complex problem of hypersonic flight Most of the participants in the Short Courses prepared a document based on their presentation for reproduction in the three volumes Some authors spent considerable time and energy going well beyond their oral presentation to provide a quality assessment of the state of the art in their area of expertise as of 1989 and 1991

Advances in Hypersonics: Defining the hypersonic environment John J. Bertin, Jacques Periaux, Josef Ballmann, 1992

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