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High-temperature effects in hypersonic flows

Finally, the increased temperature of hypersonic flows mean that real gas effects become important. For this reason, research in hypersonics is often referred to as aerothermodynamics, rather than aerodynamics. The introduction of real gas effects means that more variables are required to describe the full state of a gas.

Hypersonic and High-Temperature Gas Dynamics

Abstract: Description . This book is the second edition of a successful, self-contained text for those students and readers interested in learning hypersonic flow and high-temperature gas dynamics.

Hypersonic speed - Wikipedia

Although real gas effects and high temperature effects, or variable c_p , c_v , γ , and R , dominate very high Mach numbers, a working knowledge of constant property isentropic, normal, and oblique shock flows is necessary and useful for aeronautical engineering. Hypersonic Shock Relations in Terms of the Hypersonic Similarity Parameter Edit

Hypersonic And High Temperature Gas

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temperature gas dynamics. Like previous editions, it assumes no prior familiarity with either subject on the part of the reader.

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of hypersonic flow, the translational temperatures distributions of a perfect gas and a chemical reacting air in equilibrium and nonequilibrium conditions are presented together in Fig. 5 .

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Finally, this book is for you – the reader – to take you through an enjoyable tour of the world of Hypersonic and High-Temperature Gas Dynamics. American Institute of Aeronautics and Astronautics 12700 Sunrise Valley Drive, Suite 200 Reston, VA 20191-5807 800-639-AIAA (2422)

Hypersonic and High-Temperature Gas Dynamics Chapter 6 ...

SESA6074 Hypersonic & High Temperature Gas Dynamics Module Overview The module will provide the necessary background for those students interested in the design and operation of high speed aerospace vehicles, such as launch vehicles, re-entry vehicles and missiles.

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High-temperature effects in hypersonic flows 785 where ρ (kg/m³) is the mass density of the gas, p (Pa) is the static pressure, u, w (m/s) are the Cartesian components of velocity, and e , (J/kg) is the specific total energy given by: where e (J/kg) is the specific internal energy of the gas. The viscous flux vector, G'' , is given by

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Hypersonic and High Temperature Gas Dynamics by John D. Anderson to the AIAA Education Series. I have known John Anderson for more years than either he or I are comfortable recalling, and I have always found him to be extremely articulate and insightful.

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Hypersonic Boundary-Layer Theory: Self-Similar Solutions Edit. The similarity solutions in this section are applicable to subsonic, supersonic, and hypersonic conditions. However, for the hypersonic case, viscous dissipation will lead to high-temperature, chemically-reacting flows.

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The High Temperature Aspects of Hypersonic Flow is a record of the proceedings of the AGARD-NATO Specialists' Meeting, held at the Technical Centre for Experimental Aerodynamics, Rhode-Saint-Genese, Belgium in April 1962. The book contains the papers presented during the meeting that tackled a broad range of topics in the aspects of hypersonic ...

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