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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

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Finally, this book is for you – the reader –
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**[PDF] Hypersonic And High
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Main Hypersonic and high-temperature gas dynamics. Hypersonic and high-temperature gas dynamics John David Anderson. Year: 2006. Publisher: American Institute of Aeronautics and Astronautics. Language: english. Pages: 834. ISBN 10: 1-56347-780-7. ISBN 13:

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High-temperature effects in hypersonic
flows where ρ (kg/m³) is the mass
density of the gas, p (Pa) is the static
pressure, u, w (m/s) are the Cartesian

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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 Boundary-Layer Theory: Self-

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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

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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,

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and I have always found him to be extremely articulate and insightful.

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SESA6074 Hypersonic & High Temperature Gas Dynamics Module

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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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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 .

High-temperature effects in hypersonic flows

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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.

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