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ME356 Hypersonics Lecture 1:

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The fundamental features of hypersonic flows, and how these differ from other flows The importance and influence of non-equilibrium real-gas

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effects in high temperature flows The physical mechanisms causing aerodynamic heating of high speed vehicles How the above influence the design of hypersonic vehicles

SESA6074 | Hypersonic & High Temperature Gas Dynamics ...

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 speed - Wikipedia

Department of Mechanical
Engineering and Interdisciplinary

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Division of Aeronautical and Aviation Engineering, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong SAR, China
Stability analyses based on the rates of change of perturbations were performed to study the growth mechanisms ...

Growth mechanisms of second-mode instability in hypersonic ...

For example, airbreathing hypersonic vehicles designed for sustained flight in the atmosphere have captured the imagination of aerospace engineers and mission planners alike. One concept is that of an f8 HYPERSONIC AND HIGH-TEMPERATURE GAS DYNAMICS Fig. 1.6 Space shuttle (National Air and Space Museum).

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dynamics / John David ... Manual

DESCRIPTION: Hypersonic ground test facilities used in the development of high-speed flight systems currently lack a comprehensive suite of pressure, temperature, and gas mixture composition sensing systems that are able to survive long durations (5+ minutes) in high pressure (2000 psi) and temperature (4000 Å, °F) environments.

Sensors for High Pressure and Temperature Hypersonic ...

The hypersonic flow exists mostly in a thermodynamic nonequilibrium state; the only correct nomenclature shall be the high-enthalpy gas dynamics. It arises from the fact that the internal structure of collision gaseous particles must be entered into consideration, in other words, the microscopic

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Interactions between gases are inelastic collisions.

High-enthalpy hypersonic flows / Advances in Aerodynamics ...

When operating any hypersonic facility, the gas needs to have a high temperature. Temperature and pressure are exchanged for velocity; consequently, the gas must start at a high temperature. In any scenario where there are high pressures and high temperatures, there is a risk of something exploding or burning.

Hypersonic CF4 Tunnel - NasaCRgis
hypersonic boundary layers, thermochemical effects in hypersonics, the role of hypersonics in national security, and the aeromechanics of re-entry trajectories for spacecrafts and missiles. REFERENCE TEXTBOOKS

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(not required) - J.D. Anderson, *Dynamic Similarity Manual*
"Hypersonic and High-Temperature Gas Dynamics", AIAA, 2006.

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