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Temperature *Hypersonic And High Gas Dynamics Temperature Gas Dynamics Solution ...*

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

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physical mechanisms
causing aerodynamic
heating of high speed
vehicles How the above
influence the design of
hypersonic vehicles

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& High Temperature
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Finally, the increased
temperature of
hypersonic flows mean
that real gas effects

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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 -
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Stability analyses based
on the rates of change of
perturbations were

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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

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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).

*Hypersonic and high-
temperature gas
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...

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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

Get Free
Hypersonic And
High 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

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dynamics. It arises from the fact that the internal structure of collision gaseous particles must be entered into consideration, in other words, the microscopic interactions between gases are inelastic collisions.

*High-enthalpy
hypersonic flows /
Advances in
Page 29/32*

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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

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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

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Anderson, "Hypersonic
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Gas Dynamics", AIAA,
2006.

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