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increased

temperature of
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mean that real gas
effects become
important. For this
reason, research in
hypersonics is often

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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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Fig. 1.6 Space

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Hypersonic ground
test facilities used
in the development
of high-speed flight
systems currently

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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.

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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.

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hypersonic facility,
the gas needs to
have a high
temperature.

Temperature and
pressure are
exchanged for
velocity;

consequently, the

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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.

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Anderson, John D.
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AIAA, 2006.

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