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At supersonic speed we have a local relation for two-dimensional flows relating surface slope and pressure,

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where θ is the surface inclination relative to the freestream: (11-1) However, this relation is not particularly useful for most cases in actual aircraft configurations. In comparison, hypersonic rules are useful.

11. Hypersonic Aerodynamics

Welcome to the NASA's Guide to Hypersonics: Hypersonic aerodynamics is a special branch of the study of aeronautics. The chief characteristic of hypersonic aerodynamics is that the temperature of the flow around the aircraft is so great that the chemistry of the gas must be considered. At low hypersonic speeds, the molecular bonds vibrate,

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which changes the magnitude of the forces generated by ...

Hypersonic Aerodynamics Home - NASA

Understanding of supersonic and hypersonic aerodynamics has matured since the 1960s, and the goals of aerodynamicists have shifted from the behavior of fluid flow to the engineering of a vehicle such that it interacts predictably with the fluid flow. Designing aircraft for supersonic and hypersonic conditions, as well as the desire to improve the aerodynamic efficiency of current aircraft and propulsion systems, continues to motivate new research in aerodynamics, while work continues to be

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Aerodynamics - Wikipedia

Department Supersonic and Hypersonic Technology (AS-HYP) Cologne. Office wing with main entrance and lobby.. Supersonic wind tunnel TMK (front) and hypersonic wind tunnel H2K (rea

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An Aerodynamic Analysis of Several Hypersonic Research Airplane Concepts from $M = 0.2$ to 6.0 Jim A. Penland,' James L. Dillon, t and Jimmy L. Pittmant NASA Langley Research Center, Hampton, Va. Several

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Conceptual hypersonic research airplanes, designed within the constraints of a B-52 launch aircraft,

An Aerodynamic Analysis of Several Hypersonic Research ...

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Lecture 1

Hypersonic Aerodynamics: Basic and Applied

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Part 1...

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