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Newtonian sine-squared theory has been applied to bodies with surface curvature, here  $\theta$  is the local inclination angle, the angle between the freestream direction and the local tangent to the surface.  $C_p$  thus does not depend on any aspect of the surrounding flowfield (of course, speed must be high enough for the shock to lie close enough to the body surface, i.e. this shock layer).

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Classification of Mach regimes. Generally, NASA defines "high" hypersonic as any Mach number from 10 to 25, and re-entry speeds as anything greater than Mach 25. Among the aircraft operating in this regime are the Space Shuttle and (theoretically) various developing spaceplanes .

### **Hypersonic speed - Wikipedia**

Hypersonic Vehicles. Such phenomena are generated by the very high-temperature gas that surrounds a hypersonic vehicle, and examples include air chemistry and material ablation. The design of a hypersonic vehicle involves very tight coupling between six areas in which our faculty

are active in research: (1) aerodynamics; (2) propulsion;

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