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Surface Pressure Distribution in High-Speed Aerodynamics: A Critical Review of Theory, Computation, Experiments, and Design Implications

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Abstract Surface pressure distribution is one of the primary factors governing the aerodynamic performance, stability, controllability, and structural loading of high-speed aerospace vehicles. Accurate prediction of surface pressure is therefore essential for the design, optimization, and safe operation of flight systems ranging from supersonic aircraft to hypersonic vehicles and atmospheric re-entry platforms. Over the past several decades, extensive

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