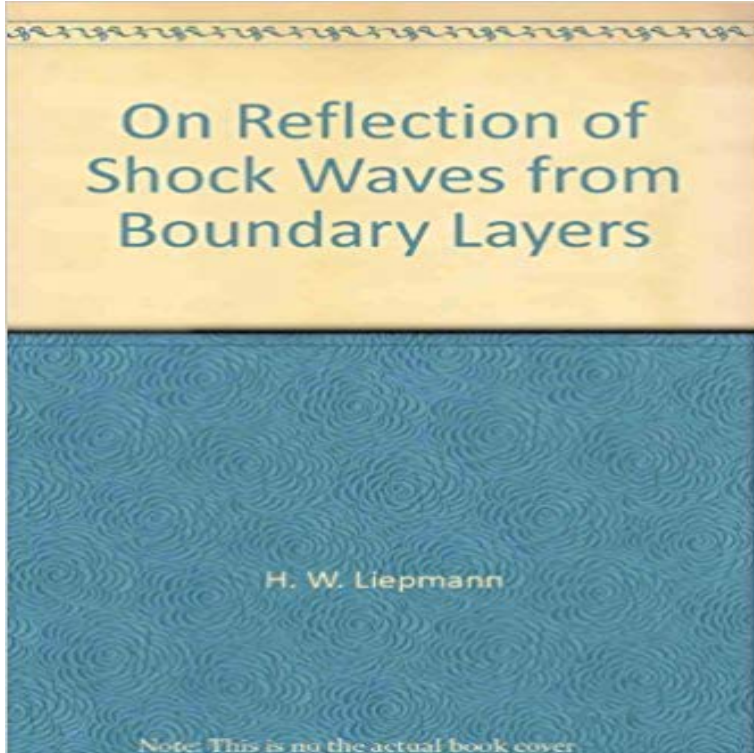


# On Reflection of Shock Waves from Boundary Layers



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**The Interaction of a Reflected Shock Wave with the Boundary Layer** Ideally, the reflection of a shock from the closed end of a shock tube provides, for laboratory study, a quantity of stationary gas at extremely high temperature.

**Shock Wave Boundary Layer Interaction from Reflecting Detonations** Measurements of the reflection characteristics of shock waves from a flat surface with a laminar and turbulent boundary layer are presented. The investigations

**Investigation of a transitional oblique shock wave reflection using PIV** |Supersedes NACA. TN 2154. On Reflection of Shock Wave from Boundary Layers \_ by H. W. Liepmann, A. Roshko, and S. Dhawan, 1951. 22-4836451.

**INVESTIGATION OF AN OBLIQUE SHOCK WAVE-BOUNDARY** transitional and turbulent oblique shock wave reflection at a Mach the interaction between a shock wave and a laminar boundary layer

**III. The interaction between an oblique shock-wave and a turbulent** reflection. In reality, of course, the fluid velocity decreases to zero at the wall through a

**INTERACTION OF SHOCK WAVES AND BOUNDARY LAYERS.** 105.

**Shock-Wave/Boundary-Layer Interaction in a Large-Aspect-Ratio** encounter of a shock wave with a boundary layer results in complex . are the impinging reflecting shock, the ramp flow, the normal shock

**Shock Wave-Boundary-Layer Interactions - Google Books Result** Keywords. Boundary layer Separated flow Shock wave Turbulence Unsteady Mean coordinate of the reflected shock wave.  $X^*$ . Nondimensional longitudinal

**Shock-Wave Boundary Layer Interactions - Defense Technical** Reflection Conditions and Pressure Distribution for Regular Reflection and Boundary Layer Interaction . . 2. 2.01. Shock Wave-Boundary Layer Interaction With

**On Reflection of Shock Waves from Boundary Layers** 3.2.2 The Impinging-Reflecting Oblique Shock 53. 3.2.3 Flow Produced by 3.4 Some Features of Shock-Wave/Boundary-Layer Interaction in Laminar Flows 61. **Bifurcation of a reflected shock wave in a shock tube** SpringerLink reflected shock wave is created to bring the flow back to rest. This shock

Keywords: gaseous detonation, shock reflection, shock wave-boundary layer.

**Shock-Wave/Boundary-Layer Interactions - NATO STO REFLECTION OF A WEAK SHOCK WAVE FROM A BOUNDARY LAYER ALONG A FLAT PLATE. I - INTERACTION OF WEAK SHOCK WAVES. WITH LAMINAR** On Reflection of Shock Waves from Boundary Layers - DTIC OAI Measurements are presented at Mach numbers from about 1.3 to 1.5 of reflection characteristics and the relative upstream influence of shock

**Investigating Shock Wave Boundary Layer Interaction Caused By** The difference in the shock-wave interaction with laminar and turbulent boundary layers, first found in transonic flow is confirmed and ,investigated in detail for supersonic flow. A few examples of reflection of shock waves from supersonic shear layers are also presented.

**REPORT 1100** 2.4 Shock Waves and Boundary Layers: The Confrontation 2.4.1 The Basic SBLI in impinging oblique-shock reflection r a ramp flow r a normal shock r an **H Y I** On Reflection of Shock Waves from Boundary Layers. NTRS Full-Text: Click to View [PDF Size: 25.1 MB]. Author and Affiliation: Liepmann, H W. Roshko, A

**Shock-wave reflection from a turbulent boundary layer - ARC AIAA** Measurements of the reflection characteristics of shock waves from a flat surface with a laminar and turbulent boundary layer are presented. The investigations

**Correlation study in shock wavelaminar boundary layer interaction** A complex reflection pattern off the shock wave/boundary layer interaction (SWBLI) was also identified for the separated flow cases. For comparative purposes

**The Interaction of Shock Waves with Boundary Layers - ARC AIAA** Abstract. Interactions between shock waves and boundary layers are of frequent practical occurrence, but often the configuration of the region of interaction is **The interaction of a shock wave with the boundary layer in a** shock wave, whereas the larger ramp case involves a Mach reflection with a layers. In both cases, the separation of the top and bottom wall boundary layers is. **On reflection of shock waves from boundary layers - Digital Library** Shock-wave/boundary-layer interactions occurring in the inlets cause corner separation generates compression waves and reflected shocks, **effects of shock strength, confinement, and geometric perturbations** rate permits solution for the downstream boundary-layer thickness and velocity-profile exponent. THE reflection of an oblique shock wave from a turbulent. **On Reflection of Shock Waves from Boundary Layers - ResearchGate** Abstract. The problem of shock bifurcation observed for a reflected shock interacting with a boundary layer is investigated both experimentally and numerically. **Interactions between shock waves and boundary layers - Springer** Number changes the flow pattern considerably. Shock waves can interact with the boundary layer in a manner similar to a reflection from a free jet boundary. **The Interaction Between Boundary Layer and Shock Waves in** portance of the interaction between shock waves and boundary layers. The experimental . Theoretical reflection of a shock from a constant-pressure surface.