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shock waveâ€“boundary-layer interactions Shock waveâ€“boundary-layer interaction (SBLI) is a fundamental phenomenon in gas dynamics that is observed in many practical situations, ranging from transonic aircraft

### **SHOCK WAVEâ€“BOUNDARY-LAYER INTERACTIONS**

shock wave, which reduces the Mach number from its freestream value of 9 to 5.70. This flow then interacts with the shockwave that forms at the second deflection angle.

### **Double Wedge Shockwave Interaction Flow Characterization**

Shock Waveâ€“Boundary Layer Interaction from Reïƒecting Detonations J. Damazo<sup>1</sup>, J. Ziegler<sup>1</sup>, J. Karnesky<sup>2</sup>, and J. E. Shepherd<sup>1</sup> 1 Introduction The present work is concerned with the differences in how shock and detonation

### **Shock Waveâ€“Boundary Layer Interaction from Reïƒecting**

interactions between normal shocks and turbulent boundary layers on flat surfaces. Experiments in a pipe confirm the theory's general validity. Effects on separation of convex surface curvature and sweepback of the shock are then considered. 1. Introduction.

### **Interactions between Normal Shock Waves and Turbulent**

Additional resources for Shock Wave-Boundary-Layer Interactions Example text In these cases, viscosity may have sufficient time to influence the flow behaviour even outside the near-wall region.

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interaction. The simulations show that the interaction of a shock wave and a strong vortex has a multistage feature. It contains the interaction of the shock wave and the initial vortex, of the reïƒected shock wave and the deformed vortex and of the shocklets and the deformed vortex. The shocklets are generated by the secondary interaction.

### **Multistage interaction of a shock wave and a strong vortex**

Shock wave/turbulent boundary layer interactions (SBLIs) represent complex ïƒow phenomena that are associated with a wide range of ïƒows, including transonic airfoils, supersonic inlets, control surfaces of high-speed aircraft, missile base ïƒows, reaction control jets, and overexpanded nozzles.

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