

PHYSICS OF SHOCK WAVES IN GASES AND PLASMAS%0A

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Physics of Shock Waves in Gases and Plasmas |

Michael A ...

As Emile Jouguet remarked, "the shock wave flew off the tip of the pen of a theoretician for the first time" about a hundred years ago. The physics of shock waves has since grown into an independent branch of science closely linked with a wide range of research areas, from astrophysics and plasma physics to solid-state physics.

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THE PHYSICS OF INTERSTELLAR SHOCK WAVES

the physics of interstellar shock waves 285 Figure 1: An optical Palomar-Schmidt photograph of the Cygnus Loop supernova remnant. Note the strong filamentary emission from radiative shocks along east and west boundaries.

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definition - What Exactly is a Shock Wave? - Physics

Shock ...

So getting back to acoustic waves in a gas, the main characteristic that divides a shock wave from an ordinary wave is the thermodynamics of the changes in pressure and temperature due to the wave. For ordinary waves (disturbance less than the phase velocity of sound), the compression and rarefaction of the gas does not entail a change in entropy of the gas - thus an ordinary wave is a reversible process thermodynamically speaking.

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When the shock wave speed equals the normal speed, the shock wave dies and is reduced to an ordinary sound wave. Jet fighter planes with conical shock waves made visible by condensation. The ratio of the speed of a moving object (v) to the speed of sound (c) in a fluid is known as the Mach number in honor of Ernst Mach (1838-1916), the Moravian physicist, psychologist, and philosopher who studied sound and ballistics.

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When a shock wave forms, the local air pressure increases and then spreads out sideways. Because of this

amplification effect, a shock wave can be very intense, more like an explosion when heard at a distance (not coincidentally, since explosions create shock waves). Analogous phenomena are known outside fluid mechanics. [Physics of Shock Waves in Gases and Plasmas - PDF Free ...](#)

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