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## ***shock wave definition facts britannica***

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shock wave strong pressure wave in any elastic medium such as air water or a solid substance produced by phenomena that create violent changes in pressure shock waves differ from sound waves in that the wave front is a region of sudden and violent change

## **shock wave wikipedia**

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in physics a shock wave also spelled shockwave or shock is a type of propagating disturbance that moves faster than the local speed of sound in the medium

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a shock wave like any wave is a disturbance moving through a medium they are thin wavefronts that cause sudden changes in the pressure temperature and density of the medium shock waves are caused in supersonic flows

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summary practice problems resources discussion when the speed of a source equals the speed of sound  $v = c$  the wave fronts cannot escape the source the resulting pile of waves forms a large amplitude sound barrier that makes sustained flight at this speed difficult and risky animate

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mar 06 2018 article imagine an object moving at super sonic speed this object as it moves through a medium causes the material in the medium to pile up compress and heat up the result is a type of shock wave known as a bow shock

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as the plasma plowed through the gas a shock wave formed and protons from the gas sped up measurements indicated scientists had predicted that protons could be accelerated by a process called

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for the first time astronomers have caught a glimpse of shock waves rippling along strands of the cosmic web the enormous tangle of galaxies gas and dark matter that fills the observable

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shock waves are the waves generated in a material after the infliction of a mechanical impact or rapid deposition of energy such as from a highintensity laser when a strong shock propagates within a single crystal of a material it deforms the crystalline lattice

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unusual wave surges in the pacific and atlantic oceans were propelled by the air researchers say the shock wave rippling out from the tonga eruption seen in an infrared satellite image drove small tsunamis in two different oceans

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shock waves are not just terrestrial phenomena find out how they form and propagate in the vastness of space

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a ustin t exas a shock wave from a giant star that blew up 10 000 years ago still plowing through space at 170 kilometers per second has come under the discerning eye of the hubble space telescope

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the first laboratory generation of an astrophysical shock wave has been reported by scientists to produce the wave scientists used a laser to create a high energy plasma a form of matter

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shock waves is dedicated to presenting and discussing new findings in fields associated with shock and detonation phenomena caters to physicists engineers and applied mathematicians working on theoretical experimental or numerical issues provides insight into fundamental aspects of techniques relevant to diverse research communities

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edited and authored by a group of leading international experts this volume is the first compendium to assemble in a single text our present knowledge about the vast range of non shock ignition mechanisms of gas liquid and solid explosives where initiation is not prompt and involves a series of steps that may or may not lead to a steady deto

## ***mechanism of evolution of shock wave of muzzle jet under***

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the coronal shock wave cs in front of the moving body encountered the bottle shaped shock wave bos of the initial jet leading to a shock shock collision that led to the disappearance of the cs of the moving body the structure of the bos of the initial jet was also destroyed and it was replaced by two reflected shock waves rs

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the observed shock wave attenuation indicates the necessity of considering the gelatin <sup>3</sup>s viscoelasticity

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