dynamics of deflagrations and pdf

Detonation (from Latin detonare, meaning 'to thunder down') is a type of combustion involving a supersonic exothermic front accelerating through a medium that eventually drives a shock front propagating directly in front of it. Detonations occur in both conventional solid and liquid explosives, as well as in reactive gases. The velocity of detonation in solid and liquid explosives is much ...

Detonation - Wikipedia

A pulse detonation engine (PDE) is a type of propulsion system that uses detonation waves to combust the fuel and oxidizer mixture. The engine is pulsed because the mixture must be renewed in the combustion chamber between each detonation wave and the next. Theoretically, a PDE can operate from subsonic up to a hypersonic flight speed of roughly Mach 5. An ideal PDE design can have a ...

Pulse detonation engine - Wikipedia

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The solid rocket industry, the Department of Energy contractor laboratories and the Department of Defense efforts related to explosives, gun and rocket propellants were surveyed to identify basic and applied research needs to mitigate hazards, particularly for solid rocket propellants.

Hazard initiation in solid rocket and gun propellants and

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