

Solid Rocket Propulsion Technology

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Solid Rocket Propulsion Technology | ScienceDirect A solid-propellant rocket or solid rocket is a rocket with a rocket engine that uses solid propellants (fuel / oxidizer). The earliest rockets were solid-fuel rockets powered by gunpowder; they were used in warfare by the Chinese, Indians, Mongols and Persians, as early as the 13th century.

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ESA - Propulsion activities Solid propellant rockets are found in several space and military applications. ... They can be launcher stages (as in Vega, see the picture on the right) Embarked missiles are propelled with this technology (e.g. sidewinder) Solid propulsion grants high thrust in a compact volume, readiness, and simplicity of the propulsion system architecture. As opposite, they feature low specific impulse ...

Solid propulsion - Space Propulsion Laboratory The technology of rocket propulsion appears to have its origins in the period 1200–1300 in Asia, where the first “ propellant ” (a mixture of saltpetre, sulfur, and charcoal called black powder) had been in use for about 1,000 years for other purposes.

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