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This volume brings together the world's most highly regarded scientists in the field of solid rocket propulsion. Thirty-nine papers present in-depth coverage on a wide range of topics including: advanced materials and nontraditional formulations; the chemical aspects of organic and inorganic components in relation to decomposition mechanisms, kinetics, combustion, and modeling; safety issues ...

Solid Propellant Chemistry, Combustion, and Motor Interior ...
Combustion of Solid Propellants Double-base propellants are used in small and medium sized rockets and thus exposed to varying ambient temperatures. The sensitivity of the motor operation to temperature depends upon the propellant burning rate sensitivity to both the temperature and the pressure.

Combustion of Solid Propellants - Stanford University
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Solid Propellant Chemistry, Combustion, and Motor Interior ...
Solid Propellant Chemistry, Combustion, And Motor Interior Ballistics. Topics rockets, missile, chemistry, HMX, RDX, GAP, propellants Collection opensource Language English. From a technical point of view, a wide range of topics is covered in some depth. Most of the papers deal with advanced materials and nontraditional formulations.

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Combustion of Solid Propellants
The density of propellant decreases with increasing mass fraction of nAl powder; the measured heat of combustion, friction sensitivity, and impact sensitivity of propellants increase with increasing mass fraction of nAl powder in the formulation.

Effects of Nano-Sized Al on the Combustion Performance of ...
Two general types of solid propellants are in use. The first, the so called double-base propellant, consists of nitrocellulose and nitroglycerine, plus additives in small quantity. There is no separate fuel and oxidizer. The molecules are unstable, and upon ignition break apart and rearrange themselves, liberating large quantities of heat.

PROPELLANTS - NASA
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.. All rockets used some form of solid or powdered propellant up until the 20th century, when liquid ...

Solid-propellant rocket - Wikipedia
A simplified diagram of a solid-fuel rocket. 1. A solid fuel-oxidizer mixture (propellant) is packed into the rocket, with a cylindrical hole in the middle. 2. An igniter combusts the surface of the propellant. 3. The cylindrical hole in the propellant acts as a combustion chamber. 4.

Solid-propellant rocket - Wikipedia
Combustion of a solid propellant involves an array of intricate physiochemical processes evolving from the various ingredients that constitute the propellant. Thus it is important to study and characterize the burning properties of the specific ingredients that are used in solid propellants (Kubota, 2002 , Ramakrishna et al., 2002 , Yang et al., 2000 , King, 1978 , Liau and Yang, 1995 , Cai et al., 2008).

Solid propellants: AP/HTPB composite propellants ...
The combustion of a solid propellant is characterized by the way its surface regresses once it begins to burn. The burning rate is the distance traveled by the flame front per unit of time, measured normally to the burning surface. The burning rate is obtained by the strand useful length and the duration of the firing.

Solid Propellants - an overview | ScienceDirect Topics
Solid Propellant Chemistry, Combustion, and Motor Interior Ballistics, Volume 185. Vigor Yang, Thomas B. Brill, Wu-Zhen Ren, Paul Zarchanm, 2000,. p. 288 ff. Double-base propellants (DB) give minimal smoke with medium-high performance, Isp ~ 235 s. Adding aluminum gives Isp ~ 250 s with visible smoke.

physical chemistry - Reaction involved in Combustion of ...
Combustion (burning something) releases energy, which makes things go. Start with fuel (something to burn) and an oxidizer (something to make it burn) and now you've got propellant. Give it a spark and energy is released, along with some byproducts.

We've Got (Rocket) Chemistry, Part 1 – Rocketology: NASA's ...
Science and Technology on Combustion and Explosion Laboratory, Xi'an Modern Chemistry Research Institute, No. 168 Zhangbadonglu, Yanta District, Xi'an, 710065, China. Yan-jing Yang ... KEY WORDS: nano-metal materials, solid propellant, combustion, burning rate, pressure exponent.

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