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The authors are among the most highly regarded scientists in the field of solid rocket propuls; ion, and come from the countries of Australia, Canada, China, France, Japan, Russia, and the United States. The volume embraces three subject areas: 1) solid propellant chemistry, synthesis, and formulation, 2 ) combustion of solid energetic materials, and 3) motor interior ballistics.

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 ...

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### Solid Propellant Chemistry, Combustion, and Motor Interior ...

Combustion in solid propellant motors involves exceedingly complex reactions taking place in the solid, liquid, and gas phases of heterogeneous mixtures. Not only are the physical and chemical processes occurring during solid propellant combustion not fully understood, but analytical combustion models have remained oversimplified and unreliable.

### Solid Propellant Combustion and Its Stability

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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.

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The two main classes of solid propellant, namely double base and composite are then discussed. The relationships between burning rate and chemical composition for both classes are considered, and the effects of operating pressure, temperature, and erosion on propellant burning are reviewed.

**The Chemistry of Propellants | ScienceDirect**

the dynamical behavior observed in solid propellant rocket motors. Here we are concerned with the theoretical framework in which chamber dynamics are investigated; and certain aspects of combustion dynamics represented by the response function which is ultimately the macroscopic realization of the propellant chemistry and combustion.

**AIAA-98-3704 Influences of Combustion Dynamics on Linear ...**

Unsteady combustion phenomena are of great interest to the solid propellant community and have been studied for many years. One area of particular interest is the relation between fluctuating pressure and propellant combustion. Pressure fluctuations, such as acoustics, naturally occur inside solid rocket combustion chambers during motor firing.

**Modeling the unsteady combustion of solid propellants with ...**

Solid Propellant Chemistry, Combustion, and Motor Interior Ballistics Yang et al Progress in Astronautics and Aeronautics series Vol 185. American Institute of Aeronautics and Astronautics, 1801 Alexander Bell Drive, Reston, VA 20191, USA. 2000. 988pp.

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