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Rockets The Magic

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a Rocket works ?

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Tested

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Fuel Yet? How
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How To Turn

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Styrofoam, Into
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Riding the Booster
with enhanced
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How do solid
rocket engines

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Fuel - Definition,
classification and
properties *Burn*

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*Propellants and
Equilibrium*

Pressure in Solid

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and Liquid*

Propellant Motors

Homemade Rocket

Fuel (R-Candy)

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Combustion of
Solid Propellants
Double-base
propellants are
used in small and
medium sized
rockets and thus
exposed to varying
ambient
temperatures. The

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Sensitivity of the
motor operation to
temperature
depends upon the
propellant burning
rate sensitivity to
both the
temperature and
the pressure.

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issues, hazards and
explosive ...

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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,

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China, France,
Japan, Russia, and
the United States.
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embraces three
subject areas: 1)
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chemistry,
synthesis, and
formulation, 2)
combustion of solid
energetic
materials, and 3)
motor interior

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ballistics.

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together the
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in the field of solid
rocket propulsion
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topics including:

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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

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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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wide range of

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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

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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

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both the
temperature and
the pressure.
And Motor

Combustion of Solid 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

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Solid Propellant
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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- an overview |**

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185. Vigor Yang,

Thomas B. Brill, Wu-

Zhen Ren, Paul

Zarchanm, 2000,.

p. 288 ff. Double-

base propellants

(DB) give minimal

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Smoke with
medium-high
performance, Isp ~
235 s. Adding
aluminum gives Isp
~ 250 s with visible
smoke.

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chemistry -
Reaction
involved in
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The two main
classes of solid
propellant, namely
double base and
composite are then
discussed. The

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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

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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

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dynamics
represented by the
response function
which is ultimately
the macroscopic
realization of the
propellant
chemistry and
combustion.

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Influences of
Combustion
Dynamics on

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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

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pressure and
propellant
combustion.

Pressure

fluctuations, such
as acoustics,
naturally occur

inside solid rocket
combustion
chambers during
motor firing.

**Modeling the
unsteady**

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