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Double-base
propellants are

used in small and
medium sized

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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.

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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

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propulsion, and come from the countries of Australia, Canada, China, France, Japan, Russia, and the United States.

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Chemistry of solid
energetic
materials, and 3)
motor interior
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together the
world's most highly
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in the field of solid
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and provides in-
depth coverage on
a wide range of
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

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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.

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Its Stability**

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rockets, missile,

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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, And
Motor Interior ...**

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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

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temperature
depends upon the
propellant burning
rate sensitivity to
both the
temperature and
the pressure.

Combustion of Solid Propellants

The combustion of
a solid propellant is
characterized by
the way its surface

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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

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firing.

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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.

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classes of solid

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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

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propellant burning
are reviewed.

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the dynamical
behavior observed
in solid propellant
rocket motors.

Here we are
concerned with the
theoretical
framework in which

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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.

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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

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particular interest
is the relation
between
fluctuating
pressure and
propellant
combustion.

Pressure
fluctuations, such
as acoustics,
naturally occur
inside solid rocket
combustion
chambers during

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motor firing.

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