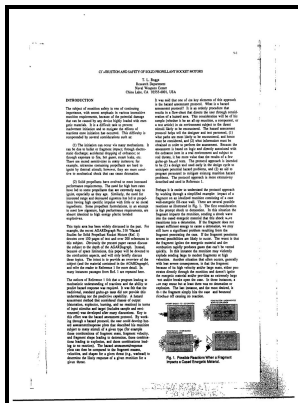


Study of combustion and flow behaviour in solid-propellant rocket motors

Institute for Aerospace Studies - Investigation of Liquid Breakup Process Solid Rocket Motor Part B: Vertical C



Description: -

- History, Modern -- 20th century -- Dictionaries.
World politics -- Dictionaries.
Chemical reaction, Conditions and laws of
Canada -- Relations -- Ukraine.
Ukraine -- Relations -- Canada.
Ukrainians -- Canada -- History.
Solar flares
Solid propellant rocket engines
Erosive burningstudy of combustion and flow behaviour in solid-propellant rocket motors
- UTIAS report -- no.280study of combustion and flow behaviour in solid-propellant rocket motors
Notes: Includes bibliographical references.
This edition was published in 1987



Filesize: 64.610 MB

Tags: #Particle #Tracking #in #Combustion #Chamber #of #Solid #Rocket #Motor

Investigation of Liquid Breakup Process Solid Rocket Motor Part B: Vertical C

The combustion of a solid propellant is characterized by the way its surface regresses once it begins to burn. The development of the new Combustible objects model in FLOW-3D v11. However, local reactions, ignitions with or without propagation are observed.

Solid Propellants

The influences of various parameters, including dome height and inlet flow angle, on the propulsive performance of the system are investigated in detail.

Solid Propellant Combustion Modeling

To design a solid propellant grain is to conceive and to define a grain which satisfies various requirements. Various phenomena, such as turbulence, electronic excitation, ionization, and most important, afterburning, occur in the plume. The formulation is based on Favre-averaged conservation equations with a two-step chemical reaction scheme and is solved by a semi-implicit finite-difference method.

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The increment quantity of the frequency using fine grid has been found almost linear and this has not been found with coarse grid.

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