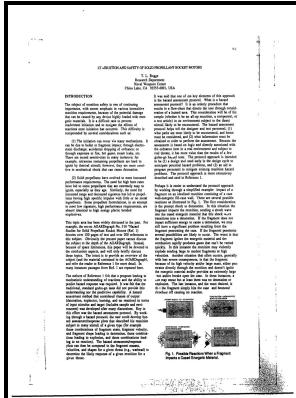


# Study of combustion and flow behaviour in solid-propellant rocket motors

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 burning study of combustion and flow behaviour in solid-propellant rocket motors

-  
UTIAS report -- no.280 study 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.

## Related Books

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- [Charlottes web](#)
- [Watch the skies! - a chronicle of the flying saucer myth](#)
- [Finlande - \[guide\]](#)
- [Politique Européenne de Lunion Soviétaire Dans Les Années 70.](#)