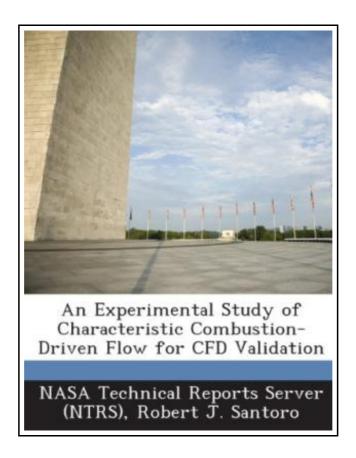
An Experimental Study of Characteristic Combustion-Driven Flow for Cfd Validation



Filesize: 8.11 MB

Reviews

It is really an remarkable book which i have ever go through. It can be writter in simple terms and not difficult to understand. I am just effortlessly can get a enjoyment of reading a composed pdf. (Dr. Lily Wunsch II)

AN EXPERIMENTAL STUDY OF CHARACTERISTIC COMBUSTION-DRIVEN FLOW FOR CFD VALIDATION



To download An Experimental Study of Characteristic Combustion-Driven Flow for Cfd Validation PDF, make sure you refer to the link listed below and download the file or have accessibility to other information that are relevant to AN EXPERIMENTAL STUDY OF CHARACTERISTIC COMBUSTION-DRIVEN FLOW FOR CFD VALIDATION ebook.

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 130 pages. Dimensions: 9.7in. x 7.4in. x 0.3in.A series of uni-element rocket injector studies were completed to provide benchmark quality data needed to validate computational fluid dynamic models. A shear coaxial injector geometry was selected as the primary injector for study using gaseous hydrogenoxygen and gaseous hydrogenliquid oxygen propellants. Emphasis was placed on the use of non-intrusive diagnostic techniques to characterize the flowfields inside an optically-accessible rocket chamber. Measurements of the velocity and species fields were obtained using laser velocimetry and Raman spectroscopy, respectively Qualitative flame shape information was also obtained using laser-induced fluorescence excited from OH radicals and laser light scattering studies of aluminum oxide particle seeded combusting flows. The gaseous hydrogenliquid oxygen propellant studies for the shear coaxial injector focused on breakup mechanisms associated with the liquid oxygen jet under sub-critical pressure conditions. Laser sheet illumination techniques were used to visualize the core region of the jet and a Phase Doppler Particle Analyzer was utilized for drop velocity, size and size distribution characterization. The results of these studies indicated that the shear coaxial geometry configuration was a relatively poor injector in terms of mixing. The oxygen core was observed to extend well downstream of the injector and a significant fraction of the mixing occurred in the near nozzle region where measurements were not possible to obtain Detailed velocity and species measurements were obtained to allow CFD model validation and this set of benchmark data represents the most comprehensive data set available to date As an extension of the investigation, a series of gasgas injector studies were conducted in support of the X-33 Reusable Launch Vehicle program. A GasGas Injector Technology team was formed consisting of the Marshall Space Flight Center, the NASA Lewis Research Center, Rocketdyne...

- Read An Experimental Study of Characteristic Combustion-Driven Flow for Cfd Validation Online
- Download PDF An Experimental Study of Characteristic Combustion-Driven Flow for Cfd Validation

Other eBooks



[PDF] The Whale Tells His Side of the Story Hey God, Ive Got Some Guy Named Jonah in My Stomach and I Think Im Gonna Throw Up

Follow the link below to download and read "The Whale Tells His Side of the Story Hey God, Ive Got Some Guy Named Jonah in My Stomach and I Think Im Gonna Throw Up" PDF file.

Save Book »



[PDF] Animalogy: Animal Analogies

Follow the link below to download and read "Animalogy: Animal Analogies" PDF file. Save Book »



[PDF] God Loves You. Chester Blue

Follow the link below to download and read "God Loves You. Chester Blue" PDF file. Save Book »



[PDF] Good Night, Zombie Scary Tales

Follow the link below to download and read "Good Night, Zombie Scary Tales" PDF file. Save Book »



[PDF] Molly on the Shore, BFMS 1 Study score

Follow the link below to download and read "Molly on the Shore, BFMS 1 Study score" PDF file.

Save Book »



[PDF] Yearbook Volume 15

Follow the link below to download and read "Yearbook Volume 15" PDF file.

Save Book »