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# NUMERICAL MODELING OF PULSE DETONATION ROCKET ENGINE GASDYNAMICS AND PERFORMANCE



Numerical Modeling of Pulse Detonation Rocket Engine Gasdynamics And Performance

NASA Technical Reports Server (NTRS). Christopher I. Morris

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English. Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Pulse detonation rocket engines (PDREs) offer potential performance improvements over conventional designs, but represent a challenging modeling task. A quasi-1-D, finite-rate chemistry computational fluid dynamics model for PDREs is described and implemented. Four different PDRE geometries are evaluated in this work: a baseline detonation tube, a detonation tube with a straight extension, and a detonation tube with two...

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- Authored by Christopher I Morris
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