

7 Publications

Dick, W., Heath, T., Fiedler, R., and Brandyberry, M., “Advanced Simulation for Solid Propellant Rockets”, 41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, AIAA-2005-3990, July 10-13, 2005

7.1 Combustion and Energetic Materials

Aita, K., N. Glumac, S.P. Vanka, and H. Krier. “Modeling the Combustion of Nano-Sized Aluminum Particles”. AIAA Paper. To be presented at the 44th AIAA Aerospace Sciences Meeting and Exhibit, Reno NV. Jan. 2006.

Begley, S. and M. Q. Brewster, “Radiative Properties of MoO₃ and Al Nanopowders from Light Scattering Measurements,” submitted, Journal of Heat Transfer.

Blythe, P.A., A.K. Kapila and M. Short 2005. Homogeneous ignition for a three-step chain-branching model. J. Engineer. Math., to appear

Brewster, M. Q. and S. Begley, “Radiative Properties of Nano-energetic Materials, Sixth International Symposium on Special Topics in Chemical Propulsion, Santiago, Chile, March 8-11, 2005.

Brewster, M. Q., “Validity of Surface Absorption Assumption for Radiant Heating and Ignition of Energetic Solids,” to appear, Journal of Thermophysics and Heat Transfer.

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Fitzgerald, R. P. and M. Q. Brewster, “A Review of Laminar Propellant Combustion: Part 1 – Experimental Investigations,” to appear, Combustion, Explosions, and Shock Waves, 2005.

Fitzgerald, R. P. and M. Q. Brewster, “A Review of Laminar Propellant Combustion: Part 2 – Theoretical Investigations,” to appear, Combustion, Explosions, and Shock Waves, 2005.

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7.2 Computer Science

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7.3 Fluid Dynamics

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