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# DEVELOPMENT AND DEMONSTRATION OF A COMPUTATIONAL TOOL FOR THE ANALYSIS OF PARTICLE VITIATION EFFECTS IN HYPERSONIC PROPULSION TEST FACILITIES (PAPERBACK)



Development and Demonstration of a Computational Tool for the Analysis of Particle Vitiation Effects in Hypersonic Propulsion Test Facilities

NASA Technical Reports Server (NTRS), Hugh Douglas Perkins

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.In order to improve the understanding of particle vitiation effects in hypersonic propulsion test facilities, a quasi-one dimensional numerical tool was developed to efficiently model reacting particle-gas flows over a wide range of conditions. Features of this code include gas-phase finite-rate kinetics, a global porous-particle combustion model, mass, momentum and energy interactions between phases, and subsonic and supersonic...

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