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COMPRESSIBILITY CONSIDERATIONS FOR KAPPA-OMEGA TURBULENCE MODELS IN HYPERSONIC BOUNDARY LAYER APPLICATIONS



Compressibility Considerations for Kappa-Omega Turbulence Models in Hypersonic Boundary Layer Applications

NASA Technical Reports Server (NTRS), C. L. Rumsey

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.The ability of kappa-omega models to predict compressible turbulent skin friction in hypersonic boundary layers is investigated. Although uncorrected two-equation models can agree well with correlations for hot-wall cases, they tend to perform progressively worse - particularly for cold walls - as the Mach number is increased in the hypersonic regime. Simple algebraic models such as Baldwin-Lomax perform...

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