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Analytical Methods for Determination of Heat Transfer Fields from TSP Measurements in Hypersonic Tunnels Tianshu Liu, Z. Cai & J. Lai Western Michigan University, Kalamazoo, MI 49008 J. Rubal & J. P. Sullivan Purdue University, West Lafayette, IN 47907

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[31,66,68,77,100,136,137,149] The Fourier law of conduction is $q = -k\nabla T$ (1.2) where q is the heat flux vector, $T(x)$ is the temperature field, and

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$k(T)$ is the coefficient of thermal conductivity. 1.2.1 Governing equation $\partial T / \partial t = \alpha \nabla(k \cdot \nabla T) + g$ (1.3) 1.2.2 Fins Fin effectiveness η_f : This is the ratio of the fin heat transfer rate to the rate that would be if the fin were not there.

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