

SHOCKS & STARS ENGINEERING A Figure of Merit-Based Computational Heat Transfer Method for **Aerothermal Analysis of Airborne Electronics System LRU**

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and Nose



$$\pi'_1 = a_1 \cdot {\pi'_2}^3 + b_1 \cdot {\pi'_2}^2 + c_1 \cdot \pi_2 + d_1$$

Constant Terms	Values	
a	$9 imes 10^{-4}$	
b	$-5.1 imes 10^{-2}$	
c	1.8518	
d	-0.3771	

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de	ρ (kg/m³)	h _c (W/m².k)	q" (W/m²)	V (m/s)
vel	1.225	610.8	987.9	280
t	0.3015	199.0	987.9	280

