

MATERIALS AND STRUCTURES SYMPOSIUM (C2)
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THE SECTIONAL OPTIMIZATION DESIGN OF HIGH SPEED AIRCRAFT AT ABLATION
THERMAL PROTECTION

Abstract

Ablation temperature software is developed. The structural size optimization of aircraft with ablation material protection is achieved. Thermal/aerodynamics load and only aerodynamics load with the effect of design result are compared. The result indicates that thermal-structural-aerodynamic coupling on multidisciplinary design optimization to high speed vehicle are necessary.