



## L Etrangere (2)

By Lucas G Horta Mercedes C Reaves

RareBooksClub. Paperback. Book Condition: New. Paperback. 42 pages. OCLC Number: 51779277 Excerpt: . . . root is fully constrained at 16 grid points with RBE2 rigid elements and 6 CELAS1 spring elements located at the spar centerline ( 30 cord ). Isotropic material properties are included in MAT8 cards for the spar cap, spar web, and the skin. MAT1 linear isotropic material properties are used for the rest of the structural components. RBE2 g. rigid elements connect the aileron to the win For the PA studies, uniform distribution functions were used to describe the Youngs modulus for the spar, skin, foam core and the root bending spring. Other parameters such as skin thickness and ply angles were ruled out early in the analysis because of their small influence on the overall stiffness. The following section describes results from experimental tests that form the basis of our initial study. ATW vibration and proof load tests Prior to certifying the ATW configuration for flight, several static and dynamic tests were performed. Load certification up to 125 of design limit loads were conducted both in bending and torsion. Dynamic tests were also conducted to correlate frequencies and mode shapes with test data, those...



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