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Reviews

This ebook is very gripping and fascinating. Sure, it is engage in, nevertheless an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Ms. Ora Buckridge)

MEKKA (2)



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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 44 pages. Original publisher: Hampton, Va.: National Aeronautics and Space Administration, Langley Research Center, 1984 OCLC Number: (OCoLC)231829830 Subject: Airplanes -- Design and construction. Excerpt: . . . 14 2 131 The effect of reducing the longitudinal modulus of the material from GN m mass to GN m2 increases the panel about when compared to aluminum wing 111 7 panels throughout the entire load range. heavily-loaded panels, this has For the same effect reducing the allowable average panel strain for the higher as 0. 0014. modulus material by However, for lightly-loaded panels, the reduction in allowable strain does not increase panel mass because these panels are stif-ness-critical and do not reach the limits of material strength. Tradeoffs such as this should be considered during any design evaluation. The effect of discrete-stiffness design on structural efficiency was also evaluated and the results for blade-stiffened panels are shown figure 20. in A The Material properties were used to generate these curves and the one repre-0 senting designs with plies in the skin is the same as the curve shown in figure 19. The curve labeled Fscrete stiffness has the same constraint con-ditions as the curve labeled pliesoin the skin and also satisfies an additional 8 90 constraint of having only and material in the skin. The results of 3.53 figure 20 show there is a penalty of about for panels with no high-stiffgess material in the skin when compared with minimum-mass designs that include 0 plies in the skin. 46 However, a substantial mass saving of between percent for lightly-loaded panels and percent for those designed for about MPa 37 6 still remains. One important aspect of the discrete-stiffness codcept which remains to be evaluated is whether...



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