航空学报
ACTA AERONAUTICA ET ASTRONAUTICA SINICA
ISSN 1000-6893
CN 11-1929/V

航空学报 » 1994, Vol. 15 » Issue (2) :222-227 DOI:

复合材料夹层结构的弯扭稳定性

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BUCKLING OF COMPOSITE SANDWICH CONSTRUCTION UNDER TWISTING AND BENDING MOMENTS

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摘要 对复合材料层合板做面板,蜂窝做夹芯的夹层结构在受到弯、扭载荷作用下的稳定性进行了研究。面板采用对称铺层、等高度蜂窝夹芯,利用能量法对临界载荷进行了计算并给出了一些计算曲线。

关键词： 结构稳定性 夹层结构 复合结构

Abstract： The buckling of compposite sandwich construction,made up from fibre reinforced laminated faces a nd honeycomb cores,is considered when they are subjected to bending and twisting moments.The faces are symmetrical and the height of cores is constant.In this paper,critical loads are evaluated using energy method.Some calculative figures are given.

Keywords： structural stability sandwich structures composite structures

Received 1992-07-16; published 1994-02-25

引用本文:

许泽;陈业标;魏曾 . 复合材料夹层结构的弯扭稳定性[J]. 航空学报, 1994, 15(2): 222-227.

Xu Ze;Cheng Yiebiao;Wei Zengsu. BUCKLING OF COMPOSITE SANDWICH CONSTRUCTION UNDER TWISTING AND BENDING MOMENTS[J]. Acta Aeronautica et Astronautica Sinica, 1994, 15(2): 222-227.