عنوان مقاله:

Optimal design of sandwich composite laminates for minimum cost and maximum frequency using simulated annealing

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خلاصه مقاله:

Multi objective optimal design of sandwich composite laminates consisting of highstiffness and expensive surface and low-stiffness and inexpensive core layers with respect to cost and frequency is addressed in this paper. Discrete ply angles and number of low-stiffness core layers are considered as design variables and simulated annealing algorithm is used for simultaneous cost minimization and frequency maximization. The proposed model is applied to a graphite-epoxy/glass-epoxy laminate and results are obtained for various aspect ratios and number of layers.

کلمات کلیدی:

Optimal Design, Composite Laminates, Cost Reduction, Simulated Annealing

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