

# COMPARATIVE ANALYSIS OF DIFFERENT APPROACHES TO DESIGNING THIN-WALLED ELEMENT STRUCTURES OF COMPOSITE MATERIALS

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The paper deals with three approaches to designing thin-walled element structures of composite materials on the basis of quasiisotropy, equistrength and optimality criteria. A comparative analysis of the results of designing on the basis of these criteria has been performed which made it possible to determine areas of their application. Problems of designing with regard to torsion rigidity demands are also dealt with.

*Composite material, thread model, quasiisotropic structure, equistrength structure, parametric optimization, structural optimization, rigidity demands, non-conventional reinforcement scheme.*

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