

# Novel Design of Composite Joints: Two Improved Designs of Double-Strap Joint



Adhesively bonded joints have been applied widely in many industries especially with composite materials. Because of the unavoidable geometric change, discontinuity or material change, the joints or the joint areas are potentially the weakest regions in structures. Thus the design of the structural joints is very critical for the whole structure and must be very carefully designed. In this book, two new designs were introduced to improve the performance of the double-strap joint. For the first design, thin step composite laminate attachments were designed and attached onto the conventional double-strap joints. For the second one, multiple layers of straight attachments were used instead of one single layer. In both new designs, additional load transfer paths were created and localized interfacial stress concentrations at the leading joint edge of the joint were reduced. Experiments were performed and the results revealed that both of the new designs had significantly greater strengths than the conventional double-strap joint. Interfacial stresses along the bondlines were analyzed in order to understand the increase in joint strength and the change of failure modes in the joints.

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