

عنوان مقاله:

Analysis and optimization of stacking sequence of thin-walled composite pressure vessel using finite element

محل انتشار:

هشتمین کنفرانس بین المللی مواد کامپوزیتی: ساخت، خواص و کاربرد (سال: 1401)

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خلاصه مقاله:

Today, the use of composites is proposed as a suitable alternative to metals in various industries such asmarine, space and military industries due to their features such as lightness and high strength. Composite is anadvanced material, which is used from simple materials to make new materials that have better mechanical andphysical properties. The composite industry is one of the growing industries in the field of engineering materials.Today, because of the advantages that composites have over metals, they have developed a lot. One of the applicationsof the composite industry is pressure vessel, which are used to store or carry out chemical processes of liquids or gases(fluids) at a pressure higher than the ambient pressure and have the ability to withstand internal pressure, external pressure and vacuum. In this paper, the investigation, analysis and optimization of stacking of composite .pressurevessel have been discussed

کلمات کلیدی: Pressure Vessel, Composite, Failure, Layer, Optimization

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