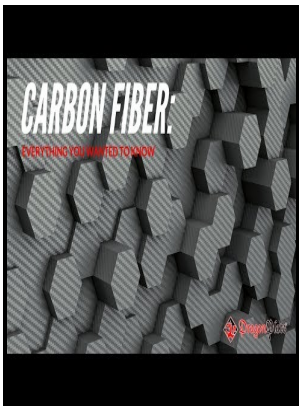
Impact properties and finite element analysis of a pultruded composite system

- - Pultrusion Publications



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Impact behaviour of pultruded GFRP composites under low

Dissertation, University of Mississippi, May, 1-214, 1996.

Impact properties and finite element analysis of a pultruded composite system

In the present work, the reduced order AEH formulation is extended to capture the plasticity and damage in the matrix.

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Linear elastic material properties were assumed.

Low velocity response of a complex geometry pultruded glass/polyester composite

The material model captures the pre-peak matrix non-linearity due to micro cracking using Schapery Theory ST. These micromodels can recognize the nonlinear response in their matrix and fiber constituents.

Response of pultruded composite tubes subjected to dynamic and impulsive axial loading

Conversely, reduced imperfection amplitudes reported in the literature are found to lead to well documented failure mechanisms and to a small influence of the buckling mode interaction.

The finite element analysis of impact induced delamination in composite materials using a novel interface element

Wilkins, Twenty Third International SAMPE Technical Conference, Covina, USA, October 1991, pp.

Low velocity response of simple geometry pultruded glass/polyester composite

In this study, the on-axis and off-axis compressive behavior of pultruded unidirectional glass fiber reinforced polymer GFRP coupons at elevated temperatures were investigated. The new ED material model allows for modeling the composite softening as a result of damage in the matrix. Although many studies have been conducted on the hybrid DSTC, studies on its lateral impact behaviour are very limited.

Low velocity response of a complex geometry pultruded glass/polyester composite

The experimental tests were simulated using finite element models with ABAQUS program. The objective of the present review is to explore the composite with various fiber and matrix combination used for impact applications, identify the gap in the literature and suggest the potential naturally available fiber and matrix combination of composites for future work in the field of impact loading.

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