Damgi rahband

Baloci Akaidmi - Impact dynamics and damage in composite structures

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The model, which uses an anisotropic damage theory previously applied to other composites, is a mesoscopic-scale model which has been developed using tension—compression tests on different stacking sequences and applies in the case of multiaxial loading. As in the case of impact response, depending on the characteristics of the impacting bodies, the resulting damage may be local contact, global structural or both.

Damage modelling for a laminated ceramic composite

Using the known aluminium structural properties and damage dimensions, the damage data is converted into impactor data. The model is applied in a case study using 120 fuselage dent damages dimensions length, width, and depth from a Boeing 777 fleet. Results from the numerical models were found to agree well with experimental observations.

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The initial impact energy was the dominant parameter that controlled the damage tolerance characteristics of pultruded composites. Impact energy, impact velocity, impactor mass, impact force or all of them? The time-histories of impact-induced dynamic strains and impact forces were recorded. Finally, the effect of scaling the geometrical parameters such as in-plane dimension and shape, thickness of the laminate, thickness of the plies and indenter radius is analyzed.

Quick start transcription guide

Even if the damage morphologies are very different, the study shows that, in both cases, classical global buckling of the plate and local buckling of the delaminated sublaminates are accompanied by a crack on the impact face of the laminate. These are only to be employed where required for editorial purposes.

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