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Fracture analysis of Kevlar-49/epoxy and e-glass/ epoxy doublers for reinforcement of cracked ... front which has considerable impact on the stress intensity factor across the plate thickness [14]. The use of three dimen- ... linear finite element software ABAQUS (Dassault Systèmes Simulia Corp., RI, USA). The structure has been meshed using

Fracture analysis of Kevlar-49/epoxy and e-glass/epoxy ...

Numerical Analysis of Kevlar-epoxy Composite Plate subjected to Ballistic Impact ... Keywords- Kevlar-epoxy, ABAQUS/Explicit, Impact behavior, Finite element analysis ... element analysis (FEA) and ...

Numerical Analysis of Kevlar-epoxy Composite Plate ...

Impact analysis of composite laminate using finite element method ... different materials such as kevlar and carbon composites are utilised in order to investigate the ballistic impact analysis of the composite laminate. The results of analyses are presented and their trends are discussed. ... as Abaqus Dassault System (2011). However, the numeri-

Impact analysis of composite laminate using finite element ...

Pre-stretch effects on ballistic impact performance of woven fabrics that made of Kevlar KM2 is investigated with finite element simulation. Individual yarns of the fabrics are modeled with truss elements incorporated with equivalent material properties of real fiber yarns.

Finite element analysis of pre-stretch effects on ...

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Simulation Ballistic Impact to the Concrete target in Abaqus

different mechanisms such as deformation of the Keywords-Kevlar-epoxy, ABAQUS/Explicit, Impact composite, delamination, and shear between layers. behavior, Finite element analysis Kevlar, the most well known aramid fibre is a type of nylon.

Numerical Analysis of Kevlar-epoxy Composite Plate ...

enhancing the low speed impact behavior of laminated woven kevlar nanocomposite. The model simulates an impactor as a shell rigid body while the composite samples were simulated in two dimensional model. ABAQUS/Explicit 6.8 was used to simulate the composite samples in this study. The FEM analysis

FEM Modeling of Nanocomposites Low Speed Impact Behavior

Keywords: Abaqus, Cementitious, Experiment, Impact, Material, SPH. 1. Introduction The performance of brittle, cementitious armor panel under highrate impact -is contingent upon a wide array of variables including but not limited to projectile and target geometry, impact velocity, type of projectile material, and angle of attack of the projectile.

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