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this is an interesting paper by choi et al. [7]. it describes the use of the ceesl library in c++ which is able to capture the effect of dynamic mechanical behavior of e-glass/carbon fiber laminates. by applying this software on the same data as the above-mentioned papers, they observed that the location of the matrix crack of the glass/carbon fiber hybrid composite is significantly different from that of e-glass/carbon fiber laminates. the locations of delamination are the same. the location of the delamination is also different. this is because the hybrid matrix crack is long and narrow. the goal of this study is to investigate the damage thresholds of different glass/carbon composites using a combined experimental and computational approach. lares et al. [9] used the nonlinear finite element method (nlem) to predict the contact pressure distributions and the shear stresses at the impact on a glass/carbon hybrid composite. they also measured the mechanical response of two representative glass/carbon hybrids using a rapid-prototyped instrumented drop-weight test. the deformation of the structure and the structural damage were captured by a high-speed camera. the authors showed that for both composites, impact resulted in a loss of contact between the projectile and the projectile holder. the instantaneous contact pressure distribution under impact is calculated by the finite element method (fem). the predicted contact pressure distribution was compared with the experimental results. the results showed that the fem simulations can predict the spatial and temporal behavior of the deformation and damage of the composite structure.

AutoCAD Mechanical 2010 Crack Free

the failure in the front side of specimen cg3 is due to the crack that spread perpendicular to the orientation of the fibers in the outer layer (figure 8g). this can be attributed to the weakness of the layer in perpendicular direction to the fiber on the impacted side. in the back side of specimen cg3, the damage is due to high tensile bending stress, which caused the peeling of the layer (figure 8h). the x-ray image in figure 8i shows the fiber split-up with less penetration of the impactor. similar layer split-ups have been observed in earlier studies [4]. the energies absorbed by specimens at different impact velocities and their mechanisms are discussed. a unique double-s-shaped fixture was developed to clamp the specimens. in order to study the impacts under different boundary conditions, three specimens were tested in the following three situations: free-standing, fixed on a beam, and clamped on top of another specimen. a total of 12 free-standing specimens were tested using impact velocities of 6, 12, 18, 24, 30, and 36 m/s. the impact energy absorbed by the specimens was recorded using the ceast 9350 impact testing machine. the results show that the specimens with a width of less than 10 mm absorbed the highest impact energy for all impact velocities. the penetration threshold of unidirectional glass-reinforced hybrid composites (0.6 mm delaminating epoxy resin) is typically less than 5 j for impact at the glass surface. previous studies have determined that no delaminations occurred on the impacted side of the specimen. however, the side of the specimen with glass fiber surface shows damage, including delaminations and cracks [7]. similarly, the penetration threshold of unidirectional hybrid composites (glass fiber/epoxy) with carbon fiber (0.3 mm) was found to be 1.0 j at the glass surface. the side with carbon fiber surface shows damage, including delaminations, cracks, and fiber failure [7]. in both cases, the impact energy is deposited at the surface of the specimen. 5ec8ef588b

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