

**DYNAMIC LOADING AND CHARACTERIZATION OF
FIBER-REINFORCED COMPOSITES**

Myrie Bressi

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glass/epoxy fiber reinforced composite (FRC). The material, has failure plane for quasi-static and dynamic loading [5,. 6]. dynamic characterization of fiber.

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Chen and W. In addition, the elements that meet the maximum tensile stress criterion are deleted from the contours in Figure 7 a-c.

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Furthermore, three sampling points at the center axis of the target are selected. delaminations are propagated, while the bending on the upper region is intensified generating delamination and separation of the plies Figure 12c indicating failure of the resin, until the failure of the fibers under shear is initiated Figure 12d yellow line. Comparing the obtained values for the mechanical properties calculated under the quasi-static and dynamic regimes, it is found that the PPSCFC exhibits a strain rate

insensitive mechanical behavior with respect to the strain rates applied, while the PPSGFC is strain rate dependent, which means enhancement on mechanical properties when the strain rate increased.