

# A COMPARISON OF QUASI-STATIC INDENTATION TO LOW-VELOCITY IMPACT pdf

## 1: Comparing damage from low-velocity impact and quasi-static indentation () | www.enganchecubano.com

*NASA / TP A Comparison of Quasi-Static Indentation to Low-Velocity Impact A. T. Nettles Marshall Space Flight Center, Marshall Space Flight Center, Alabama.*

The IR camera provided the temperature changes during tensile testing. Compressive experiments and finite element method FEM have been used to study the mechanical behavior of composite laminate with plies drop-off. This user subroutine has taken consideration of the mechanical properties degradation according to development of three types of damage. The load-strain curves can agree with each other between experiments and FEM. The detail of damage development of the plies drop-off composite laminate under compressive loading can be described as followed. Matrix cracking damage and fiber-matrix shearing damage occur simultaneously at first, and then fiber buckling damage initiates. Matrix cracking and fiber-matrix shearing are very dangerous to the carrying capacity of laminate and fiber buckling intensifies further this effect. The initiation and development of fiber buckling indicates that laminate loses carrying capacity at all. A micromechanical elastic-plastic bridging constitutive model is developed in this paper for accurate representation of material behavior of fiber-reinforced composite laminates. In the bridging constitutive model, elastic behavior is represented by bridging matrix elements and interaction between the average stresses in matrix with those in fibers are included. A transient plastic bridging matrix is developed to describe accurately the elastic-plastic material properties of the fiber reinforced composites, and the effects of the material parameters of matrix and fiber on the bridging matrix elements have been accounted for. The proposed constitutive model is validated against experiment investigation. This paper presents the results of an experimental study on the compressive stress-strain relationship of wood confined with fiber composite sheets. Wood cylinders confined with carbon fiber composite sheets along full length were tested by compression load. The tests considered up to three layers of fiber sheets. The results will be used to verify a numerical analysis model, which will be further used to conduct a parametric study of the influential factors. The generated knowledge can be used as reference for strengthening designs of historical timber structures using fiber reinforcing products. Li Wei Xu, Y. D Huang, Li Liu Abstract: The effect of physical properties on the interfacial adhesion properties of fiber reinforced nylon66 composites have been investigated in this paper. In addition, the properties of the interface between glass fiber and composites have been studied by interfacial shear strength IFSS and dynamic wetting method.

## 2: Effect of Quasi-Static Loading on the Composite Laminates

*A Comparison of Low-Velocity Impact and Quasi-Static Indentation by Bradley D. Lawrence and Ryan P. Emerson ARL-TR December Approved for public release; distribution is unlimited.*

## 3: A Comparison of Quasi Static Indentation Testing to Low Velocity Impact Testing

*The purpose of this investigation is to assess the potential interchangeability of key material response metrics as measured using quasi-static indentation (QSI) and low-velocity impact (LVI).*

## 4: A Comparison of Quasi-Static Indentation Testing to Low Velocity Impact Testing - CORE

*The equivalence of quasi-static load test and low-velocity impact tests in terms of the critical and maximum impact forces was established; therefore the critical impact force to initiate impact.*

## 5: A Comparison of Quasi-Static Indentation to Low-Velocity Impact - CORE

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*A static test method for modeling low-velocity foreign object impact events to composites would prove to be very beneficial to researchers since much more data can be obtained from a static test than from an impact test.*

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