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Nota di contenuto

Structural Analysis of Advanced Materials; Preface; Table of Contents; Detectors in Barrier Structures of Metal-Lamellar Semiconductors; The Influence of Some Technological Parameters on the Fracture Toughness of Ceramic Materials; Manufacturing of Carbonaceous Materials Based on Olive Stones Biomass for Electrochemical Applications; Physicochemical and Electro-Rheological Characterization of Kaolinite / CMS / Silicone Oil Fluid; The Effect of the Cure Temperature on the Thermomechanical Characteristics of an Adhesive Study of DGEBA and Novolac Adhesives Hydrothermal Ageing for a Ceramic/ Steel Substrates Bonding AssemblyInfluence of Strain Rate on the Yielding Behavior and on the Self Heating of Thermoplastic Polymers Loaded under Tension; Dynamic Response of Symmetric and Asymmetric E-Glass / Epoxy Laminates at High Strain Rates; Influence of Process and Material Parameters on Impact Response in Composite Structure: Methodology Using Design of Experiments; Approximate Solution of the Structural Problems Using Probabilistic Transformation Structural Shape Optimization Using an Adaptive Simulated AnnealingGraft Interpenetrating Continuous Epoxy-Polysiloxane Polymeric Network; Experimental and Numerical Modelling of LRI Process; BEM Simulation of 3D Updated Resin Front for LCM Processes; FEA of Dynamic Behavior of Top Hat Bonded Stiffened Composite Panel; Experimental Characterization of Behavior Laws for Titanium Alloys: Application to Ti5553; Effect of Ductile Damage Evolution in Sheet Metal Forming: Experimental and Numerical Investigations; Keywords Index; Authors Index

Sommario/riassunto

The increased use of advanced materials in high efficiency structures - electronic devices, medical equipment, aircraft and vehicles - requires improved reliability, resistance to breakdown and improved failure and life-span forecasting for a wide range of loading conditions. The development of materials having advanced structural properties is becoming a key factor in industrial and technological progress. The aim of the special collection is to provide a forum for engineers, researchers, scientists and industrial experts to present their work and discuss the current situation with regard to