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FAILURE MODELS AND CRITERIA FOR FRP UNDER IN-PLANE OR THREE-DIMENSIONAL STRESS STATES INCLUDING SHEAR NON-LINEARITY



Failure Models and Criteria for FRP Under In-Plane or Three-Dimensional Stress States Including Shear Non-Linearity

NASA Technical Reports Server (NTRS), et al., Silvestre T. Pinho

BiblioGov. Paperback Book Condition: New. This item is printed on demand. Paperback 72 pages. Dimensions: 9.7in. x 7.4in x 0.1in. A set of three-dimensional failure criteria for laminated fiber-reinforced composites, denoted LaRC04, is proposed. The criteria are based on physical models for each failure mode and take into consideration non-linear matrix shear behaviour. The model for matrix compressive failure is based on the Mohr-Coulomb criterion and it predicts the fracture angle. Fiber kinking is triggered by an initial fiber misalignment angle...

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