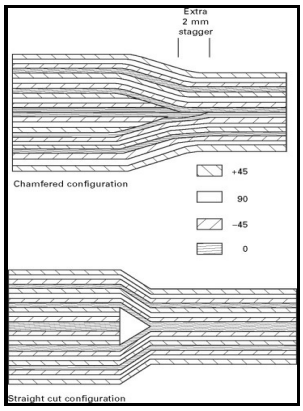
Quasi-isotropic laminate and the failure criteria

University of Oslo, Department of Mathematics, Mechanics Division - Quasi



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Problems Creating an Effective Laminate

Quasi-isotropy is a special case of the orthotropic formalism and the general orthotropic results are just as rigorous as the previous specialized quasi-isotropic results. The resulting elastic properties and the ensuing failure consequences are found to have a profound dependence upon the nanoscale variable.

Tsai

Under ideal conditions yield stress is found to represent a 3rd order transition.

Failure Theory for Materials Science and Engineering

Micromechanics is seen as having a special capability beyond just that of predicting micron scale failure.

Failure Theory for Materials Science and Engineering

Furthermore, it is a independent criterion, as it does not predict the way in which the material will fail, as opposed to mode-dependent criteria such as the Hashin criterion, or the Puck failure criterion. After summarizing recent research progress, a program for the recovery and revitalization of the field is given. The LibreTexts libraries are and are supported by the Department of Education Open Textbook Pilot Project, the UC Davis Office of the Provost, the UC Davis Library, the California State University Affordable Learning Solutions Program, and Merlot.

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