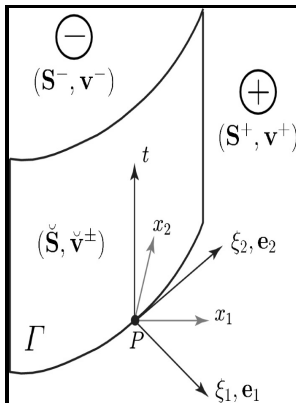


Dynamic crack propagation in brittle materials - analyses based on fracture and damage mechanics

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Dynamic Initiation and Propagation of Multiple Cracks in Brittle Materials

The approach also accounted for traction-loaded cracks.

Continuum damage modeling of dynamic crack velocity, branching, and energy dissipation in brittle materials

Predicting variability in the dynamic failure strength of brittle materials considering pre-existing flaws. . Paxson and Lucas 1973 found a very steep increase of Γa^* when the maximum velocity in their experiments was approached.

Upscaling Crack Propagation and Random Interactions in Brittle Materials Under Dynamic Loading

Thus the acceleration of the crack could play an important role in determining the critical velocity. For brittle materials, failure is often associated with crack growth from pre-existing flaws in the material, and with the subsequent coalescence of these cracks.

Computational modeling of crack propagation in real microstructures of steels and virtual testing of artificially designed materials

International Journal of Fracture 120, 581—600 2003.

Dynamic Crack Propagation and Its Interaction With Micro

First, developments in continuum elastodynamic analysis have provided the underpinnings for characterizing the dynamic crack-tip stress state in terms of the dynamic stress intensity factor.

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