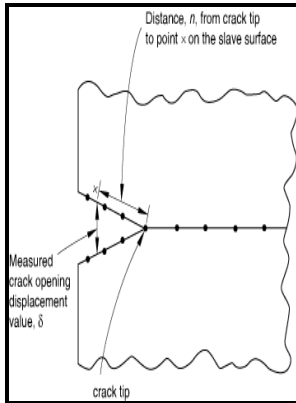


Dynamic crack propagation in brittle materials - analyses based on fracture and damage mechanics

Eindhoven University of Technology - Dynamic Fracture



Description: -

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Dynamic crack propagation analysis based on the s

The cracking density was evaluated for the microconcrete specimen Fig. Moreover, due to the very short time spans of the dynamic fracture event, it is difficult to measure directly higher-order physical quantities such as energy distribution, instantaneous dynamic energy release rate, and dynamic stress field close to the crack tip in those test specimens, particularly in opaque structural steel specimens of practical interest.

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

Int J Numer Meth Eng 101 12 :933, 2015 are used as a benchmark.

Dynamic crack propagation analysis based on the s

John—Shah experiment Another benchmark problem to test the performance of the VO fracture mechanics framework involves the three-point bending of concrete beams subject to impact loading. We treat the system in its incremental i.

Dynamic crack propagation analysis based on the s

More specifically, we define a VO $\alpha x, t$ in the following manner: $10^{-\kappa}$ where $\kappa > 0$ is the previously introduced scaling factor. Acknowledgements The authors gratefully acknowledge Dr.

A bond

This problem is followed by a discussion of the asymptotic steady-state stress field near moving cracks for mode III, mode I, and mode II crack growth at arbitrary crack speeds. In this review, we compare the approaches for determining brittle crack propagation arrest properties that are used in Japan with those used in Europe and the United States. You are using a browser version with limited support for CSS.

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