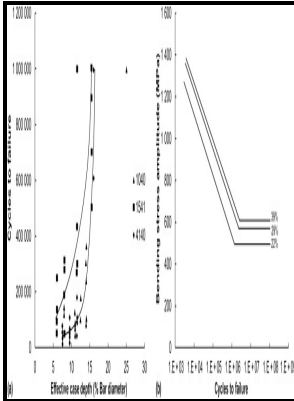


Hardness traverses on fractured copper rotating cantilever fatigue specimens

Aeronautical Research Laboratories - ASTM Complete Index



Description: -

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Fatigue Standards and Fracture Standards

Low-temperature operation, that is, operation below room temperature, is a key indicator that brittle fracture is a possible failure mode.

Dangerous fatigue curves

Quite often the beach marks, if they exist, and possible patterns in the stage III fracture called chevron lines, point toward the origins of the initial cracks. These tests are conducted to examine and evaluate the behavior, susceptibility, and extent of resistance of certain materials to sharp-notch tension, tear, axial fatigue, strain-controlled fatigue, surface crack tension, creep crack, and residual strain.

Shigley's Mechanical Engineering Design 10e

The strengths S_c and S_t are the compressive and tensile strengths, respectively; they can be used for yield or ultimate strength. In this chapter, we will take a structured approach in the design against fatigue failure. This implies that the load factor for torsion is mainly accounting for the difference in shear strength versus normal strength.

Dangerous fatigue curves

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