عنوان مقاله:
On Geometry Dependence of Weibull Parameters; BEREMIN Approach Revisited

محل انتشار:
چهاردهمین کنفرانس سالانه مهندسی مکانیک (سال:1385)

تعداد صفحات اصل مقاله: 7 صفحه

نویسندگان:
Pooria Akbarzadeh - MSc Student Department of Mechanical Engineering, Ferdowsi University of Mashhad
Saeid Hadidi-Moud - Assistant Professor Department of Mechanical Engineering, Ferdowsi University of Mashhad

خلاصه مقاله:
Local stress based approaches to fracture prediction use Weibull distribution model based on weakest link theory. Accuracy of predictions as part of the integrity assessment of structural steels containing defects and often subjected to various conditions of temperature and loading relies on the accuracy in estimation of distribution parameters. In the model proposed by BEREMIN [ref] it is argued that distribution parameters only depend on the material and are considered geometry independent. In this work their approach has been re-examined and based on independent series of experimental fracture tests using round notched bar specimens. The geometry dependence of parameters is highlighted.

کلمات کلیدی:
Weibull parameter, failure probability, fracture stress, linear regression, calibrated curve

لینک نتیج تب مقاله در سویلیکا:
https://www.civilica.com/Paper-ISME14-ISME14_527.html