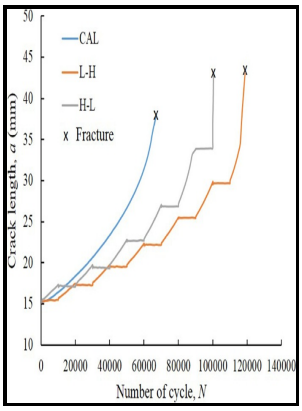
# Methods and models for predicting fatigue crack growth under random loading

## ASTM - Uncertainty quantification and model validation of fatigue crack growth prediction




Description: -
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Fracture mechanics.
Materials -- Fatigue.Methods and models for predicting fatigue crack growth under random loading
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ASTM special technical publication ;Methods and models for predicting fatigue crack growth under random loading
Notes: Includes bibliographical references and index.
This edition was published in 1981



Filesize: 66.94 MB

Tags: #Fatigue

**Uncertainty quantification and model validation of fatigue crack growth prediction**

This allows for the generation of load histories following different distribution families and parameters and subjecting fatigue crack growth specimen to them. Elber , ASTM, Philadelphia, PA 1988. As such, separate cycle counting or identification algorithms such as the commonly used , are required to identify the maximum and minimum values in a cycle.

**Crack growth equation**

Fatigue Crack Growth Threshold Concepts eds. The occurrence of macrocracks can then be acceptable in order to avoid a low design stress level and a corresponding heavy structure.

**Quantitative models on corrosion fatigue crack growth rates in metals: Part I. Overview of quantitative crack growth models**

Spiedel, in Stress Corrosion Cracking and Hydrogen Embrittlement of Iron Based Alloys eds.

**Fatigue crack growth under random loading**

Budavy Maszyn, 2, 363—376 1978. Effect of stress biaxiality and welding residual stress. Pao: Naval Research Laboratory, Washington, DC, private communication, 2011.

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