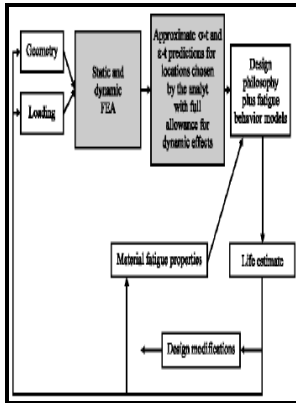


Identification of defect locations in forged products using the finite-element method

University of Birmingham - Fracture Initiation in Plane Strain Forging



Description: -

-Identification of defect locations in forged products using the finite-element method

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Notes: Thesis (Ph.D.) - University of Birmingham, Dept of Mechanical Engineering.

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FEM model — NIMS toolbox 3.2.0 documentation

The EMAT's excitation mechanism is contactless, therefore it can potentially offer a good alternative for the bonded piezoelectric transducers. It is assumed that the reader is familiar with and. The present work aims to demonstrate the potential of guided wave health monitoring of large area complex structures.

Finite element modelling and simulation of guided wave propagation in steel structural members

Special attention is paid to the relationship between ice and frozen sucrose solution.

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However, satisfactory levels of deformation at fracture predictions have only been found for the two lower aspect ratio specimens. The effectiveness of GFEM has been shown when applied to problems with domains having complicated boundaries, problems with micro-scales, and problems with boundary layers. Coupled analyses showed the effect of the change of the permeability on the transient seepage in the coupled models is less than its effect in the uncoupled models for elastic soils.

Fracture in Forming Processes

This thesis has attempted to determine the suitability of ultrasonic techniques for detecting environmental degradation, specifically of aluminium epoxy joints typical of those used in the aerospace industry.

CiteSeerX — Genetic Combined with a Simplex Algorithm as an Efficient Method for the Detection of a Depressed Ellipsoidal Flaw using the Boundary Element Method

The key objective of this research project is to develop, implement and test a prototype guided wave tomography system based on the A0 Lamb mode. The super oscillatory properties of the evanescent waves are subsequently used to achieve subwavelength resolution.

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