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Basic fracture

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Deformation and
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Materials Lecture

21 - Introduction to
Fracture

Mechanics,
Griffith's Analysis
of a Cracked Body
Fracture Mechanics

Concepts:

Micro→Macro

Cracks; Tip

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Blunting; Fracture

Toughness, Mechanics Of

Ductility \u0026amp;

Yield Strength Engineering

Materials Mechanics

- Lecture 8 FAD

and Mixed Mode Solution Manual

Fracture Lecture 22

Part 1 - Fracture

Mechanics (Energy

Release Rate)

~~Fracture Toughness~~

~~Testing Fracture~~

and Principles of

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Fracture Mechanics

Mechanics Of

Fracture

Mechanics: Griffith

and Orowan

Fracture and

Fracture Toughness

Lecture 33-

General procedure

of failure analysis:

Application of

fracture mechanics

I Fracture

Mechanics -

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Lecture 2 Lecture

22 Part 2 - Fracture

Mechanics (Crack

Resistance, Stress

Intensity Factor)

Ch.9 Fracture in

Materials Fracture

Mechanics Fracture

Mechanics

PERIDYNAMIC

MODELING OF

LARGE

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AND DUCTILE

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~~FRACTURE L37~~

Pressurized
fractured problem:
linear elastic

fracture mechanics
solution

Fracture Toughness

Example: Allowable
Pressure in

Cracked Titanium
Tube; Optimizing
Yield Strength

~~Lecture 6: Elastic-~~
~~plastic fracture~~

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Richard P. Vinci,

Jason L. Hertzberg,

ISBN :

9781118324240,

ISBN

9780470527801

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Fibre deformation and fracture in the cutting of a unidirectional FRP composite: (a)

$\theta < 90^\circ + \gamma$, and (b) $90^\circ + \gamma \leq \theta < 180^\circ$.

The elliptical vibration of the tool in x- and z- directions can be described as $x_0(t) = a \sin(2\pi ft)$ $z_0(t) = b \sin(2\pi ft + \psi)$ The

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relative displacements of the tool to the

workpiece are there

efore $x(t) = vt + a \sin(2\pi ft)$

$z(t) = a_p - r_e -$

$b + b \cos(2\pi ft + \psi)$ wh

ere ψ is the phase

difference and r_e is

the radius of the

cutting edge.

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vibration ...

Ductile vs. brittle

fracture Principles

of fracture

mechanics Stress

concentration

Impact fracture

testing Fatigue

(cyclic stresses)

Cyclic stresses, the

S—N curve Crack

initiation and

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Factors that affect
fatigue behavior
Creep (time
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