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Griffith's

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Mechanics

Concepts:

Micro→Macro

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Cracks; Tip

Blunting;

Toughness,
Ductility \u0026amp;

Yield Strength

**Fracture
Mechanics -**

Lecture 8 FAD
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Fracture Lecture
22 Part 1 -

Fracture
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Rate) Fracture

Toughness

Testing Fracture

and Principles

of Fracture

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Mechanics:

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Toughness *Lecture*

33- General

procedure of

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analysis:
Application of
fracture

mechanics I

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Lecture 2

Lecture 22 Part
2 - Fracture

Mechanics (Crack
Resistance,

Stress Intensity
Factor) Ch.9

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~~PERIDYNAMIC~~

~~MODELING OF~~

~~LARGE~~

~~DEFORMATION AND~~

~~DUCTILE FRACTURE~~

L37 Pressurized

fractured

problem: linear

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Elastic fracture

mechanics

solution

Fracture

Toughness

Example:

Allowable

Pressure in

Cracked Titanium

Tube; Optimizing

Yield Strength

~~Lecture 6:~~

~~Elastic-plastic~~

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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

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be described as (1) $x_0(t) = a \sin(2\pi f t)$
 $z_0(t) = b \sin(2\pi f t + \psi)$ The

relative displacements of the tool to the workpiece are therefore (2) $x(t) = v t + a \sin(2\pi f t)$
 $z(t) = a p - r e - b + b \cos(2\pi f t + \psi)$ where ψ is the phase difference and

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reis the radius
of the cutting
edge.

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Ductile vs.
brittle fracture
Principles of
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Impact fracture

testing Fatigue

(cyclic

stresses) Cyclic

stresses, the

S-N curve Crack

initiation and

propagation

Factors that

affect fatigue

behavior Creep

(time dependent

deformation)

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$T_{cr} = \tau \cos \alpha \cdot f \cdot s_f$
 $f = \theta \cdot \text{plastic}$
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several new
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Furthermore,

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This edition has
more focus
shifted toward
emerging
technologies
(nanotechnology
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