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Toughness, Ductility

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The Big Bang - The facts behind brittle fracture Failure

Fatigue and Creep 23

Free Body Diagram

Principles FRCS

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example of Paris Law for crack growth until fatigue failure

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- Failure crack growth and cyclic fatigue

failure example

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problem fatigue crack

growth Fracture

Toughness

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Stress Concentration

Factor Fatigue Failure

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Lecture 33- General  
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Fracture mechanics  
studies the  
development and  
spreading of cracks in  
materials. The study

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Uses two techniques including analytical and experimental solid mechanics. The former is used to determine the driving force on a crack and the latter is used to measure material's resistance to fracture.

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successful early

applications of

fracture mechanics

bolstered the

standing of this new

field in the

engineering

community. In 1956,

Wells [16] used

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TL Anderson

Consulting

Fracture mechanics -

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Fundamentals and applications.

Anderson, T. L.

Abstract. A

comprehensive treatment of fracture mechanics suitable as a graduate text and as a reference for engineers and researchers is presented. The general topics addressed include:

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fundamental concepts of linear elastic and elastic-plastic fracture mechanics; dynamic and time-dependent fracture mechanics; micromechanisms of fracture in metals and alloys; fracture mechanisms in polymers, ceramics, and composites;

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History and Overview

-- 2. Linear Elastic  
Fracture Mechanics --

Appendix 2:

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Foundations of Linear  
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Mechanics -- 3.

Elastic-Plastic

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