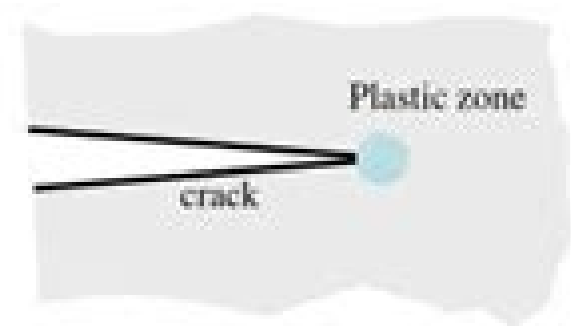


6. Elastic-Plastic Fracture Mechanics

Introduction

LEFM: Linear elastic fracture mechanics

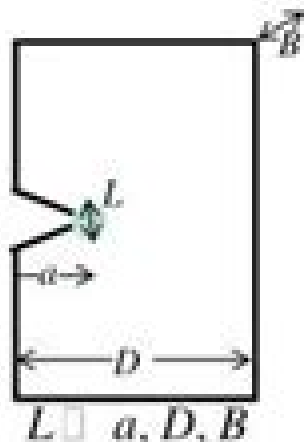
Applies when non-linear deformation is confined to a *small* region surrounding the crack tip
Effects of the plastic zone negligible, linear asymptotic mechanical field (*see eqs 4.36, 4.40*).



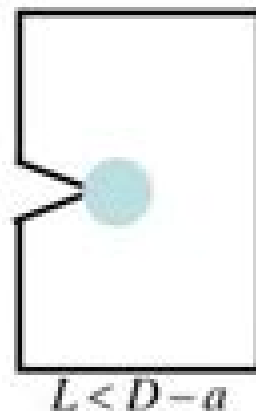
Elastic-Plastic fracture mechanics (EPFM) :

Generalization to materials with a non-negligible plastic zone size: elastic-plastic materials

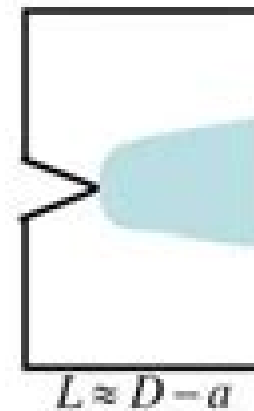
Elastic Fracture



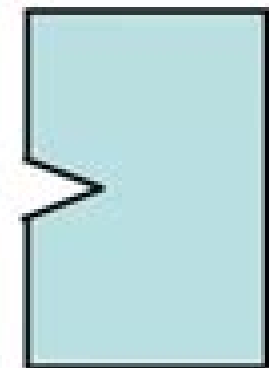
Contained yielding



Full yielding



Diffuse dissipation



LEFM, K_{IC} or G_{IC}
fracture criterion

EPFM, J_C fracture
criterion

Catastrophic failure,
large deformations

Elastic Plastic Fracture

Yan Bai



Elastic Plastic Fracture:

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