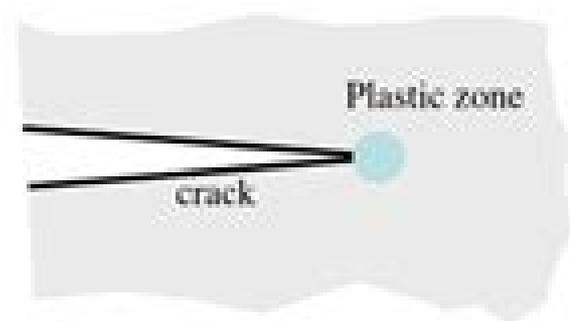


6. Elastic-Plastic Fracture Mechanics

Introduction



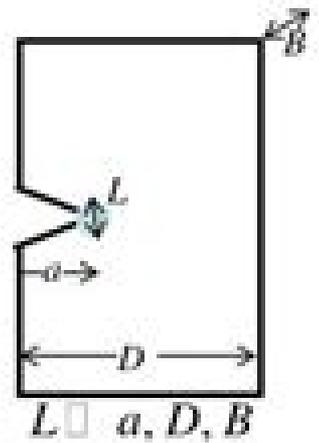
LEFM: Linear elastic fracture mechanics

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*).

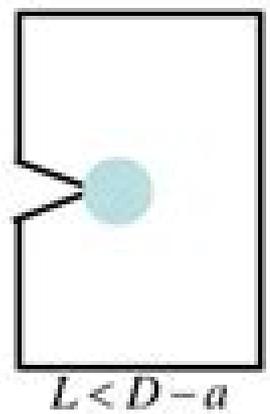
Elastic-Plastic fracture mechanics (EPFM) :

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

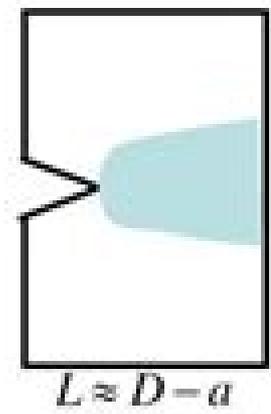
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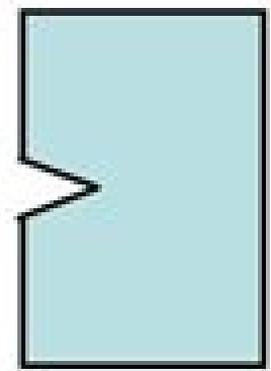
Contained yielding



Full yielding



Diffuse dissipation



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

EPFM, J_C fracture criterion

Catastrophic failure, large deformations

Elastic Plastic Fracture

Marcel A. Müller



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Table of Contents Elastic Plastic Fracture

1. Understanding the eBook Elastic Plastic Fracture
 - The Rise of Digital Reading Elastic Plastic Fracture
 - Advantages of eBooks Over Traditional Books
2. Identifying Elastic Plastic Fracture
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Elastic Plastic Fracture
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elastic Plastic Fracture
 - Personalized Recommendations
 - Elastic Plastic Fracture User Reviews and Ratings
 - Elastic Plastic Fracture and Bestseller Lists
5. Accessing Elastic Plastic Fracture Free and Paid eBooks
 - Elastic Plastic Fracture Public Domain eBooks
 - Elastic Plastic Fracture eBook Subscription Services

- Elastic Plastic Fracture Budget-Friendly Options
- 6. Navigating Elastic Plastic Fracture eBook Formats
 - ePub, PDF, MOBI, and More
 - Elastic Plastic Fracture Compatibility with Devices
 - Elastic Plastic Fracture Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Elastic Plastic Fracture
 - Highlighting and Note-Taking Elastic Plastic Fracture
 - Interactive Elements Elastic Plastic Fracture
- 8. Staying Engaged with Elastic Plastic Fracture
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Elastic Plastic Fracture
- 9. Balancing eBooks and Physical Books Elastic Plastic Fracture
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Elastic Plastic Fracture
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Elastic Plastic Fracture
 - Setting Reading Goals Elastic Plastic Fracture
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Elastic Plastic Fracture
 - Fact-Checking eBook Content of Elastic Plastic Fracture
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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