

## Fracture Mechanics With An Introduction To Micromechanics Mechanical Engineering Series

Fracture Mechanics: With an Introduction to Micromechanics Dietmar Gross, Thomas Seelig (auth.) Concerned with the fundamental concepts and methods of fracture mechanics and micromechanics, this textbook primarily focuses on the mechanical description of fracture process. However, material specific aspects are also discussed.

When a crack reaches a certain critical length, it can propagate catastrophically through the structure, even though the gross stress is much less than would normally cause yield or failure in a tensile specimen. The term "fracture mechanics" refers to a vital specialization within solid mechanics in which the presence of a crack is assumed, and we wish to find quantitative relations between the crack length, the material's inherent resistance to crack growth, and the stress at which the crack propagates at high speed to cause structural failure.

Arising from the manufacturing process, interior and surface flaws are found in all metal structures. Not all such flaws are unstable under service conditions. Fracture mechanics is the analysis of flaws to discover those that are safe (that is, do not grow) and those that are liable to propagate as cracks and so cause failure of the flawed structure.

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This introductory section begins with a historical review of early structural failures that motivated much research in the field of fracture mechanics. This is followed by a review of Airy stress functions and complex numbers, two advanced math tools used in the Linear Elastic Fracture Mechanics section.

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