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# Fracture Mechanics Fundamentals And Applications Second Edition

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### **Fracture Mechanics Fundamentals And Applications**

Fracture Mechanics: Fundamentals and Applications, Fourth Edition is the most useful and comprehensive guide to fracture mechanics available. It has been adopted by more than 150 universities worldwide and used by thousands of engineers and researchers.

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Edition also includes detailed mathematical derivations in appendices at the end of applicable chapters; recent developments in laboratory testing, application to structures, and computational methods; coverage of micromechanisms of fracture; and more than 400 illustrations.

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Fracture mechanics studies the development and spreading of cracks in materials. The study 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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Fracture Mechanics: Fundamentals and Applications — Second edition. T.L. Anderson. CRC Press, 2000 Corporate Blvd NW, Boca Raton, FL 33431, USA. 1995. Distributed by Times Mirror International Publishers, Unit 1, 3 Sheldon Way, Larkfield, Aylesford, Kent ME20 6SF. 688pp. Illustrated. £54. L.P. Pook.

### **Fracture Mechanics: Fundamentals and Applications — Second ...**

Abstract: A guide to fracture mechanics. It encompasses theory and applications, linear and nonlinear fracture mechanics, solid mechanics, and materials science with a unified and balanced approach. It covers micro mechanisms of fracture. It is suitable for those involved with fracture mechanics.

### **Fracture Mechanics : Fundamentals and Applications, Third ...**

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Fracture mechanics is a set of theories describing the behaviour of solids or structures with geometrical discontinuity at the scale of the structure. The discontinuity features may be in the form of line discontinuities in two-dimensional media (such as plates, and shells) and surface discontinuities in three-dimensional media.

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Dr. Anderson is the author of Fracture Mechanics: Fundamentals and Applications, which has remained the top selling textbook in its field since the 1st Edition was published in 1991. This book has been adopted as a required text by over 150 universities, and is a favorite reference for practicing engineers.

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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: 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 ...

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Fracture mechanics : fundamentals and applications Item Preview remove-circle ... Fracture mechanics : fundamentals and applications by Anderson, T. L. (Ted L.), 1957-Publication date 1995 Topics Fracture mechanics, Materials Fracture, Bruchmechanik Publisher Boca Raton : CRC Press

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