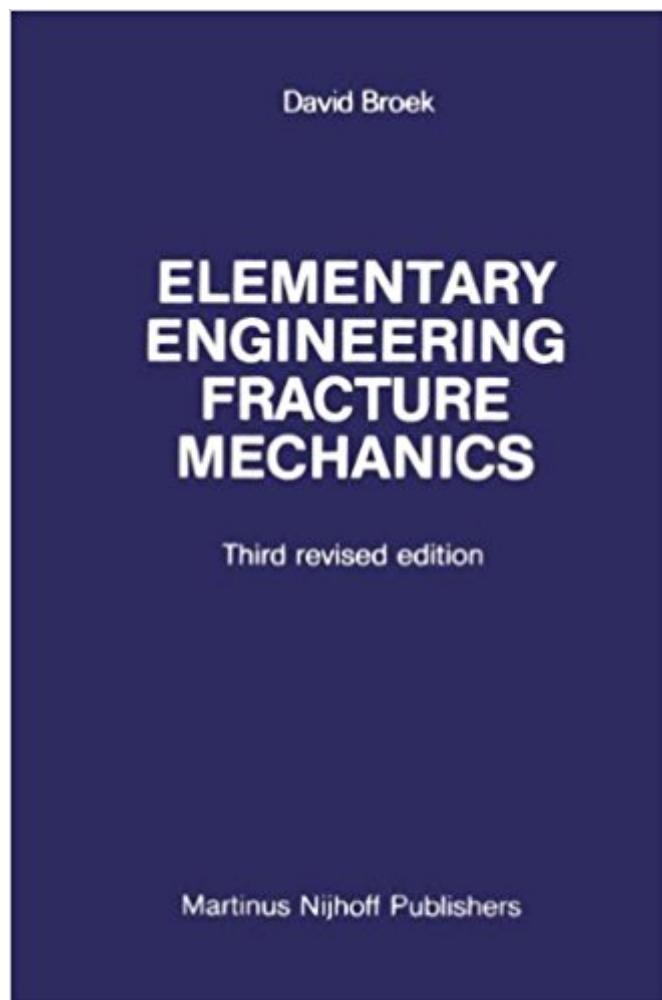


The book was found

Elementary Engineering Fracture Mechanics



Synopsis

When asked to start teaching a course on engineering fracture mechanics, I realized that a concise textbook, giving a general oversight of the field, did not exist. The explanation is undoubtedly that the subject is still in a stage of early development, and that the methodologies have still a very limited applicability. It is not possible to give rules for general application of fracture mechanics concepts. Yet our comprehension of cracking and fracture behaviour of materials and structures is steadily increasing. Further developments may be expected in the not too distant future, enabling useful prediction of fracture safety and fracture characteristics on the basis of advanced fracture mechanics procedures. The user of such advanced procedures must have a general understanding of the elementary concepts, which are provided by this volume. Emphasis was placed on the practical application of fracture mechanics, but it was aimed to treat the subject in a way that may interest both metallurgists and engineers. For the latter, some general knowledge of fracture mechanisms and fracture criteria is indispensable for an appreciation of the limitations of fracture mechanics. Therefore a general discussion is provided on fracture mechanisms, fracture criteria, and other metallurgical aspects, without going into much detail. Numerous references are provided to enable a more detailed study of these subjects which are still in a stage of speculative treatment.

Book Information

Hardcover: 469 pages

Publisher: Springer; 1982 edition (June 30, 1982)

Language: English

ISBN-10: 9024725801

ISBN-13: 978-9024725809

Product Dimensions: 6.1 x 1.1 x 9.2 inches

Shipping Weight: 1.9 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,451,349 in Books (See Top 100 in Books) #48 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Fracture Mechanics #123 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Strength of Materials #126 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Testing

[Download to continue reading...](#)

Fracture and Fatigue Control in Structures: Applications of Fracture Mechanics (Astm Manual Series) Fracture and Fatigue Control in Structures: Applications of Fracture Mechanics Elementary engineering fracture mechanics Deformation and Fracture Mechanics of Engineering Materials Advanced Fracture Mechanics (Oxford Engineering Science Series) Analytical Fracture Mechanics (Dover Civil and Mechanical Engineering) Reinforced Concrete: Mechanics and Design (4th Edition) (Civil Engineering and Engineering Mechanics) Fundamentals of Earthquake Engineering (Civil engineering and engineering mechanics series) Finnie's Notes on Fracture Mechanics: Fundamental and Practical Lessons Principles of Fracture Mechanics Fracture Mechanics: Fundamentals and Applications, Second Edition Practical Fracture Mechanics for Structural Steel Fracture Mechanics Fracture Mechanics, Second Edition Introduction to Fracture Mechanics The Practical Use of Fracture Mechanics Fundamentals of Fracture Mechanics Fracture Mechanics: Fundamentals and Applications, Third Edition Soil Mechanics in Highway Engineering (Series on Rock and Soil Mechanics) Spanish Reader for Beginners-Elementary 2-Short Paragraphs in Spanish: Spanish to English Translation (Spanish Reader for Beginners-Elementary 1, 2 & 3) (Spanish Edition)

[Dmca](#)