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Fracture Mechanics, Second Edition



Synopsis

Since the first edition published in 1991, this has been one of the top-selling books in the field. The first and second editions have been used as a required text in over 100 universities worldwide and have become indispensable reference for thousands of practising engineers as well. The third edition reflects recent advances in the field, although it still retains the characteristics that made it a best-selling title. Providing thorough coverage of a wide range of topics, this book covers both theoretical and practical aspects of fracture mechanics and integrates materials science with solid mechanics. This edition includes expanded coverage of weight functions and a new chapter on environmental cracking.

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Customer Reviews

The 2nd edition of this book is well designed, written and illustrated and is not overly long. As a result it is very clear and easy to read and understand. The focus is on fracture mechanics fundamentals, including basic concepts, analysis, experiments and physical aspects of fracture. It would be a good text for a 1 semester course. However no exercises are given, so the instructor would need to develop these. Also notable is that the cost of this book is very reasonable in comparison to alternatives. Computational fracture mechanics and other modern topics such as cohesive zone modeling, crack tearing using critical CTOA, interface fracture and so on are not discussed.

In the subject as involved and incomplete as fracture mechanics, this book is what I would call, standard work. For me, this book proved a foundation laying text while working on my thesis about plane stress fracture toughness testing of polymer films. Authors' style is simple, clear and easily understandable --which is hard to find in the books dealing with fracture mechanics.

More useful as a reference than a textbook for learning fracture mechanics. The explanations leave a lot to be desired, but if you are already familiar with the material and just need something to jog your memory, then this might be the ticket. The eBook version looked pretty strange on my Kindle (a lot of the equations were typeset strangely), and I wouldn't recommend it.

This book explains principles of fracture mechanics in detail. Therefore, it is very easy for a beginner to understand. This textbook is the best one I can find at present.

perfect, nice, a good book no matter for undergraduate or graduate, cover the basic concepts of fracture mechanics, and crack growth

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