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Fracture Mechanics: Griffith and Orowan Fracture and Fracture Toughness Lecture 33- General procedure of failure analysis: Application of fracture mechanics I Fracture Mechanics - Lecture 2 Lecture 22 Part 2 - Fracture Mechanics (Crack Resistance, Stress Intensity Factor) ~~Ch.9 Fracture in Materials~~ ~~Fracture Mechanics~~ ~~Fracture Mechanics~~ ~~PERIDYNAMIC MODELING OF LARGE DEFORMATION AND DUCTILE FRACTURE~~ L37 Pressurized fractured problem: linear elastic fracture mechanics solution

Fracture Toughness Example: Allowable Pressure in Cracked Titanium Tube; Optimizing Yield Strength ~~Lecture 6: Elastic-plastic fracture mechanics~~

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Description. Deformation and Fracture Mechanics of Engineering Materials provides a combined fracture mechanics-materials approach to the fracture of engineering solids with comprehensive treatment and detailed explanations and references, making it the perfect resource for senior and graduate engineering students, and practicing engineers alike. The 5th edition includes new end-of-chapter homework problems, examples, illustrations, and a new chapter on products liability and recall ...

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This edition comprehensively updates the field of fracture mechanics by including details of the latest research programmes. It contains new material on non-metals, design issues and statistical aspects. The application of fracture mechanics to different types of materials is stressed.

Updated to reflect recent developments in our understanding of deformation and fracture processes in structural materials. This completely revised reference includes new sections on isostress analysis, modulus of rupture, creep fracture micromechanicsms, and many more.

"The sixth edition provides supplemental materials to enhance both the learning and teaching experiences of students and faculty. A number of video recordings have been added to the text to flesh out certain topics; these recordings have been well received in both Lehigh University classrooms and industrial short courses given throughout the world. Special attention is given to discussions and their interpretation of fatigue fracture surface markings in metals and engineering plastics. A new video recording has been created expressly for this edition that eerily connects works of fiction with real events; in one case, a 1949 novel describes a fictional account of the fatigue failure of an imagined commercial airliner that predated the 1954 catastrophic fatigue failure of the da Havilland Comet commercial airliner. Then again, an 1898 novel described the sinking of an imagined cruise liner, named Titan, 14-years before the sinking of the R.M.S. Titanic. The similarities in the sinking of both Titan and Titanic vessels are mesmerizing"--

Updated to reflect recent developments in our understanding of deformation and fracture processes in structural materials. This completely revised

reference includes new sections on isostress analysis, modulus of rupture, creep fracture micromechanicsms, and many more.

This important work covers the fundamentals of finite deformation in solids and constitutive relations for different types of stresses in large deformation of solids. In addition, the book covers the fracture phenomena in brittle or quasi-brittle materials in which large deformation does not occur. The book provides a thorough understanding of fracture mechanics as well. Since mathematical proof with full derivation is demonstrated throughout the book, readers will gain the skills to understand and drive the basic concepts on their own, enabling them to put forward new ideas and solutions. Finite deformations in material can occur with change of geometry such that the deformed shape may not resemble the initial shape. Analyzing these types of deformations needs a particular mathematical tool that is always associated with tensor notations. In general the geometry may be non-orthogonal, and the use of covariant and contra-variant tensor concepts to express the finite deformations and the associated mechanical strains are needed. In addition, it is obvious that in large deformations, there are several definitions for stress, each depending on the frame of the stress definitions. The constitutive equations in material also depends on the type of stress that is introduced. In simulation of the material deformation, components of the deformation tensor will be transformed from one frame to another either in orthogonal or in non-orthogonal coordinate of geometry. This informative book covers all this in detail.

This book covers the most recent advances in the deformation and fracture behaviour of polymer material. It provides deeper insight into related morphology□property correlations of thermoplastics, elastomers and polymer resins. Each chapter of this book gives a comprehensive review of state-of-the-art methods of materials testing and diagnostics, tailored for plastic pipes, films and adhesive systems as well as elastomeric components and others. The investigation of deformation and fracture behaviour using the experimental methods of fracture mechanics has been the subject of intense research during the last decade. In a systematic manner, modern aspects of fracture mechanics in the industrial application of polymers for bridging basic research and industrial development are illustrated by multifarious examples of innovative materials usage. This book will be of value to scientists, engineers and in polymer materials science.

This book gives an overview of recent advances in the fracture mechanics of polymers, morphology property correlations, hybrid methods for polymer testing and polymer diagnostics, and biocompatible materials and medical prostheses, as well as application examples and limits.