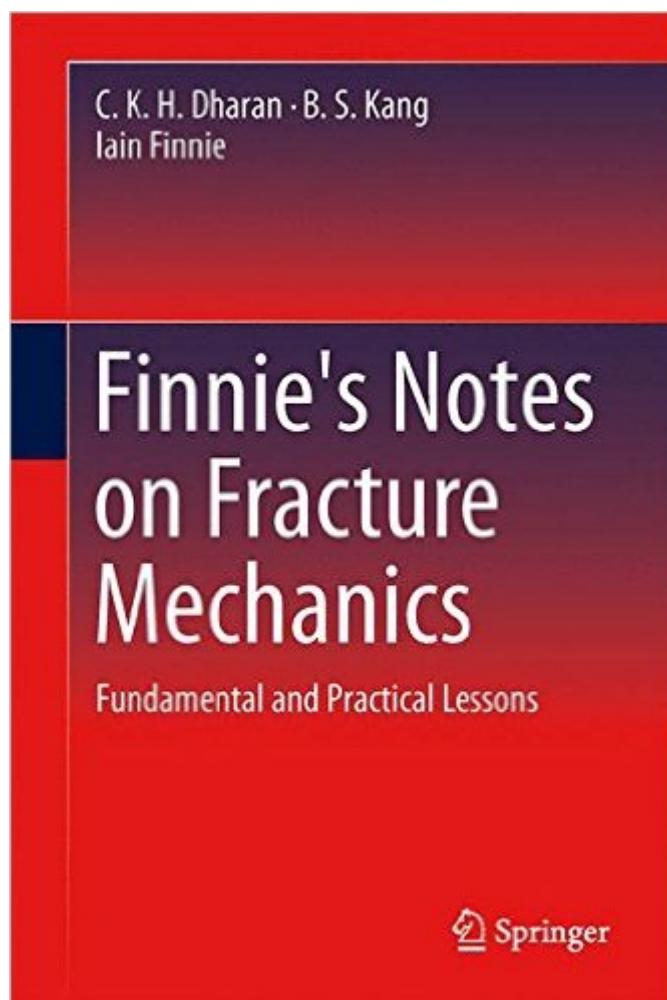


The book was found

Finnie's Notes On Fracture Mechanics: Fundamental And Practical Lessons



Synopsis

This textbook consists primarily of notes by Iain Finnie who taught a popular course on fracture mechanics at the University of California at Berkeley. It presents a comprehensive and detailed exposition of fracture, the fundamentals of fracture mechanics and procedures for the safe design of engineering components made from metal alloys, brittle materials like glasses and ceramics, and composites. Interesting and practical problems are listed at the end of most chapters to give the student practice in applying the theory. A solutions manual is provided to the instructor. The text presents a unified perspective of fracture with a strong fundamental foundation and practical applications. In addition to its role as a text, this reference would be invaluable for the practicing engineer who is involved in the design and evaluation of components that are fracture critical. This book also:
Presents details of derivations of the basic equations of fracture mechanics and the historical context of the development of fracture theory and methodology
Treats linear and nonlinear fracture mechanics methodologies beginning with a review of the basic equations of solid mechanics followed by solutions useful in fracture prediction
Illustrates the basis of linear elastic fracture mechanics (LEFM), practical applications of LEFM in the design of fracture-tolerant structural components
Offers interesting, practical, classroom proven problems at the end of most chapters
Includes instructor's solutions manual

Book Information

Hardcover: 249 pages

Publisher: Springer; 1st ed. 2016 edition (October 1, 2016)

Language: English

ISBN-10: 1493924761

ISBN-13: 978-1493924769

Product Dimensions: 6.1 x 0.8 x 9.2 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Best Sellers Rank: #530,765 in Books (See Top 100 in Books) #56 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Strength of Materials #103 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Industrial Design > Products #760 in Books > Textbooks > Engineering > Mechanical Engineering

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

Finnie's Notes on Fracture Mechanics: Fundamental and Practical Lessons DIY Projects Box Set:

25 Simple Ways to Cut Your Spending. Tips and Techniques to Create Indoor Garden Plus Drawing and Zendoodle Basic Lessons (frugal living, Indoor Gardening, drawing lessons) Sleisenger and Fordtran's Gastrointestinal and Liver Disease Review and Assessment (Sleisenger and Fordtrans Gastrointestinal and Liver) Eat Fat and Get Thin, Fit, and Healthier Than Ever Before!: Easy Diet and Delicious Cookbook: Recipes for Dramatic and Sustainable Weight Loss (Includes 21 Day Meal Plan) Best Plants for New Mexico Gardens and Landscapes: Keyed to Cities and Regions in New Mexico and Adjacent Areas, Revised and Expanded Edition Amino Acids: The Way to Health and Wellness: Find Health and Healing from Depression, Addictions, Obesity, Anxiety, Sexual Issues, and Fill Nutritional Needs of Vegetarian and Vegan Diets Die-cutting and Tooling: A guide to the manufacture and use of cutting, embossing and foiling dies, anvils and cylinders The Complete Book of Essential Oils and Aromatherapy: Over 800 Natural, Nontoxic, and Fragrant Recipes to Create Health, Beauty, and Safe Home and Work Environments Low-Dimensional and Nanostructured Materials and Devices: Properties, Synthesis, Characterization, Modelling and Applications (NanoScience and Technology) Hacking: Basic Hacking Fundamental Secrets The Big 15 Paleo Cookbook: 15 Fundamental Ingredients, 150 Paleo Diet Recipes, 450 Variations German Aesthetics: Fundamental Concepts from Baumgarten to Adorno (New Directions in German Studies) Elements of the Swing: Fundamental Edition Chakra for Sex: Harnessing the Sexual Energy: Lessons, Poses and Exercises to Open up Your Sacred Chakra and Improve Your Sex Life: Sex Improvement, Book 2 Data Analytics: Practical Data Analysis and Statistical Guide to Transform and Evolve Any Business Leveraging the Power of Data Analytics, Data Science, ... (Hacking Freedom and Data Driven Book 2) Big Data, MapReduce, Hadoop, and Spark with Python: Master Big Data Analytics and Data Wrangling with MapReduce Fundamentals using Hadoop, Spark, and Python Riddles: Best Riddles For Kids: Short Brain Teasers, Riddle Books Free, Riddle and trick questions, Riddles, Riddles and Puzzles (Jokes and Riddles Book 2) Pure Pulp: THE SHADOW And BLACK MASK - 2 COMPLETE CLASSIC PULP MAGAZINES FROM THE 1930s AND 1940s: OVER 230 PAGES OF MYSTERY, MURDER AND INTRIGUE GoWISE Air Fryer Cookbook: 101 Easy Recipes and How To Instructions for Healthy Low Oil Air Frying and Baking (Air Fryer Recipes and How To Instructions) Healthy Super Shakes and Smoothies: 25 Sugar Free Dairy Free Shakes and Smoothies Recipes (Here's the DEAL - Healthy Weight Loss and Fat Burning Book 3)

[Dmca](#)