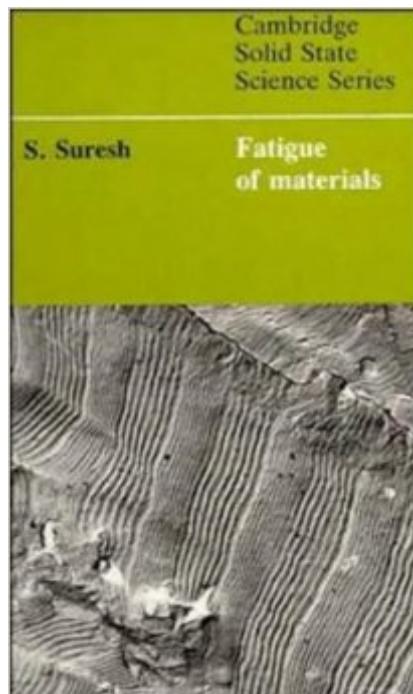


The book was found

Fatigue Of Materials (Cambridge Solid State Science Series)



Synopsis

Written by one of the most widely quoted researchers in the field, this book is the first to provide an authoritative, comprehensive, and unified treatment of the mechanics and micromechanisms of fatigue in metals, nonmetals, and composites.

Book Information

Series: Cambridge Solid State Science Series

Paperback: 604 pages

Publisher: Cambridge University Press (September 28, 1992)

Language: English

ISBN-10: 0521437636

ISBN-13: 978-0521437639

Product Dimensions: 5.4 x 1.3 x 8.5 inches

Shipping Weight: 2 pounds

Average Customer Review: 4.3 out of 5 stars [See all reviews](#) (11 customer reviews)

Best Sellers Rank: #2,878,821 in Books (See Top 100 in Books) #103 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Fracture Mechanics #10756 in Books > Engineering & Transportation > Engineering > Mechanical #73578 in Books > Textbooks > Science & Mathematics

Customer Reviews

This is perhaps the most comprehensive summary of the fatigue literature up to the time of its publication (2003 for the corrected second edition). It covers all aspects of the fatigue of materials in very great detail. It has chapters on historical aspects, micro-mechanisms of the fatigue process, crack initiation, crack growth, strain-life approaches, stress-life approaches, the influence of environment, behavior of single crystals as well as polycrystalline solids, effects of mean stress and spectrum loading, as well as many other topics. (Rather than being covered in a separate chapter, the statistical aspects of fatigue are covered in various sections.) This is a very good resource for researchers, and one that I used, but I think that its very comprehensiveness detracts from its value as a textbook. There is simply too much material to make it a good text, although it was one that was used for Professor Suresh's MIT course. Professor Suresh tried to include everything (and largely succeeded), but not being selective, a student does not know what are the most important aspects of the subject, requiring a lot of selection and direction on the part of a teacher. I prefer "Metal Fatigue in Engineering" by Stephens et. al. as textbook, especially if the course of study is

self directed.

As someone who does research in this field, the Suresh book is incredibly helpful. The book contains some mechanics, but its main focus is on the mechanics of fatigue, and what happens on a micro-structural level. Whenever I have a question about fatigue, this book answers it. This text may contain a lot more information than needed for an undergraduate course on fatigue, but at the graduate level its perfect.

Fatigue of Materials is a good book for researchers and students in fracture mechanics. Book briefly covers stress life and strain life fatigue approaches. Book is written at a graduate level with predominately theoretical content. Author also provides real case studies mainly from aerospace industry. Current topics such as crack retardation, small cracks, mixed mode, crack closure, etc. are covered in this book.

Good comprehensive book covering various topics. Whole book can be useful only for people in academia or research in my opinion. Practising engineers will find many well written chapters & topics to their liking.

The topical (chapter) layout is extremely coherent, as well, the visual effect is appealing. Engineering students hoping to do future research in fatigue of materials will find the book to be a cursory introduction, although the non-specialist will find much of the overview of research activities overwhelming as an introduction.

I like it. use it for my graduate class.

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

Adrenal Fatigue: Overcome Adrenal Fatigue Syndrome, Boost Energy Levels, and Reduce Stress (Adrenal Fatigue Syndrome, Reduce Stress, Adrenal Fatigue Diet, Adrenal Reset Diet) Self-help Treatment for Chronic Fatigue Syndrome, M.E, Fibromyalgia and Adrenal Fatigue: The Sensitive's Solution: FREE Support Group (Chronic Fatigue Syndrome, M.E, Fibromyalgia, Chronic Fatigue) Fatigue of Materials (Cambridge Solid State Science Series) Second Edition Fatigue of Materials (Cambridge Solid State Science Series) Adrenal Fatigue: Goodbye - Adrenal Fatigue! The Ultimate Solution For - Adrenal Fatigue & Adrenal Burnout: Adrenal Diet - Hormone Reset - Balance Hormones ... Reset, Addison's Disease, Low Libido) Gut: The Key to Ultimate Health - SIBO, IBS &

Fatigue (GAPS, Candida, Chronic Fatigue, Fibromyalgia, Adrenal Fatigue, SIBO, Parasites) Adrenal Fatigue: Overcome Adrenal Fatigue Syndrome With The Adrenal Reset Diet. How To Reduce Stress, Anxiety And Boost Energy Levels And Overcome Adrenal ... Books, Adrenal Fatigue Diet, Adrenal Reset) Adrenal Fatigue: What Is Adrenal Fatigue And How To Reset Your Diet And Your Life (Adrenal Fatigue, Reduce Stress, Boost Energy,Diet) Mosfet Modeling for VLSI Simulation: Theory And Practice (International Series on Advances in Solid State Electronics) (International Series on Advances in Solid State Electronics and Technology) The Physics And Modeling of Mosfets (International Series on Advances in Solid State Electronics) (International Series on Advances in Solid State Electronics and Technology (Unnumbered)) The Science of Polymer Molecules (Cambridge Solid State Science Series) Fracture of Brittle Solids (Cambridge Solid State Science Series) Thermoluminescence of Solids (Cambridge Solid State Science Series) The Vibrational Spectroscopy of Polymers (Cambridge Solid State Science Series) The Solid State: An Introduction to the Physics of Crystals for Students of Physics, Materials Science, and Engineering (Oxford Physics Series) Fatigue: Fight It with the Blood Type Diet: The Individualized Plan for Preventing and Treating the Conditions That Cause Fatigue Adrenal Fatigue : Adrenal Reset Diet: Understand The Symptoms And Beat Adrenal Fatigue Syndrome Forever. Lose Weight,Reduce Both Stress And Anxiety To ... Eating,Diet,Boost Metabolism) Adrenal Fatigue Diet: Adrenal Fatigue Treatment with the Hormonal Balance and Top 50 Easy to Do Recipes Fatigue Design Techniques: Vol. I - High-Cycle Fatigue (Volume 1) Optical Interconnects (Synthesis Lectures on Solid-State Materials and Devices)

[Dmca](#)