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Elastic And Inelastic Stress Analysis (Materials Science & Engineering Series)



Synopsis

Presents certain key aspects of inelastic solid mechanics centered around viscoelasticity, creep, viscoplasticity, and plasticity. It is divided into three parts consisting of the fundamentals of elasticity, useful constitutive laws, and applications to simple structural members, providing extended treatment of basic problems in static structural mechanics, including elastic and inelastic effects. It contains worked-out examples and end-of-chapter problems.

Book Information

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Customer Reviews

I bought this book to use for a graduate level advanced mechanics of materials course and did not find it beneficial at all. This is a very math based book with very little explanations. Many of my classmates had the same opinion. Definitely an upper level read.

I'm a practicing senior engineer and no slouch in math. However generally I look for answers or ways to quickly develop answers. I was looking for something more advanced in the areas of plastic flow and failure than is presented in the usual strength of materials texts. The title of this book

sounded right and the reviews were good so I bought it. I browsed through it and found it highly mathematical and a difficult read. It would probably be most useful for someone who wanted to do computer simulations and had the time to do that. It's likely a great book, as some reviewers state, but it just wasn't as physical as I wanted. I thought I should pass this along for the benefit of anyone else in my situation. I sent it back and bought Boresci's Advanced Mechanics of Materials (6th ed). I had never sent anything back, nice to know it can be done. I have browsed through this book and it seems more like what I was looking for. It's more physical than mathematical although the math is there, just as it should be. It just doesn't dominate like it does in Shames' book. I expect I'll get much more physical insight and enjoyment out of reading this book than Shames'. I'll let you know, but it'll be a while.

This book by I. H. Shames is, in one word, a great book for those who want to obtain a deep understanding about the real world of Mechanics of Materials. With his pleasant way of explanation, Mr. Shames has given a complete and easy to understand introduction about the most important topics in mechanics of materials like elasticity, plasticity and viscoelasticity and much more. The only thing that I found as a drawback to this book was that despite of it being expensive, it was not in a good shape. The binding was not as good as I expected. It was a library binding book.

Excellent book in solid mechanics. It provides a comprehensive, readable and organized introduction to elasticity, viscoelasticity, creep, plasticity for graduate students in solid mechanics field. Many top universities in North America recommend/use it as a reference book. In a word, it is one of my best collection in my shelf.

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