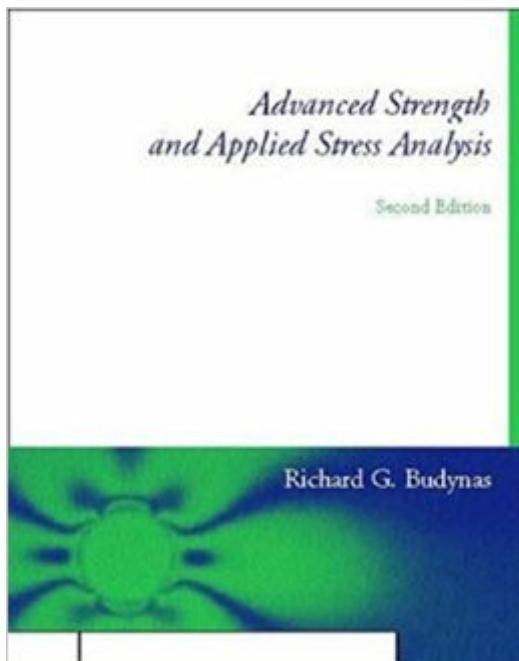


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# Advanced Strength And Applied Stress Analysis



## **Synopsis**

This book provides a broad and comprehensive coverage of the theoretical, experimental, and numerical techniques employed in the field of stress analysis. Designed to provide a clear transition from the topics of elementary to advanced mechanics of materials. Its broad range of coverage allows instructors to easily select many different topics for use in one or more courses. The highly readable writing style and mathematical clarity of the first edition are continued in this edition. Major revisions in this edition include: an expanded coverage of three-dimensional stress/strain transformations; additional topics from the theory of elasticity; examples and problems which test the mastery of the prerequisite elementary topics; clarified and additional topics from advanced mechanics of materials; new sections on fracture mechanics and structural stability; a completely rewritten chapter on the finite element method; a new chapter on finite element modeling techniques employed in practice when using commercial FEM software; and a significant increase in the number of end of chapter exercise problems some of which are oriented towards computer applications.

## **Book Information**

Hardcover: 960 pages

Publisher: McGraw-Hill Education; 2 edition (October 29, 1998)

Language: English

ISBN-10: 007008985X

ISBN-13: 978-0070089853

Product Dimensions: 7.5 x 1.4 x 9.2 inches

Shipping Weight: 3.4 pounds (View shipping rates and policies)

Average Customer Review: 3.1 out of 5 starsÂ  See all reviewsÂ  (16 customer reviews)

Best Sellers Rank: #508,358 in Books (See Top 100 in Books) #55 inÂ  Books > Engineering & Transportation > Engineering > Materials & Material Science > Strength of Materials #113 inÂ  Books > Engineering & Transportation > Engineering > Materials & Material Science > Metallurgy #218 inÂ  Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural

## **Customer Reviews**

I have taught Advanced Strength of Materials at three different universities and without a doubt this is the worst textbook that I have ever used or seen. The text was selected before I started teaching at New Mexico Tech and I did not have time to change before the semester started. There are

numerous mistakes in the example problems, the material is never explained in a fashion that the students can understand, the material is badly organized, and the author never states what assumptions are built in to the equations that he uses. A totally unsatisfactory book!!

I agree with the reader from Rochester, NY. The book is great for an engineer, but the solutions given for the exercises are too often wrong. Therefore, I don't recommend this book for a student and I would be a bit ashamed of myself if, as a professor of mechanical engineering, I was the author of it.

Great textbook. However, has too many mistakes. Answers are not reliable

A great text if you have a solid foundation in the fundamentals. Text outlines many useful analysis techniques and emphasizes awareness of case by case situations. Good problem resource despite having many incorrect solutions in the back of the book.

This book is terribly difficult to understand. It does not do a good job explaining things or giving you the necessary equations, and often assumes you know what equations to use. The examples make huge leaps that are not always clear to someone just learning the material, which makes it difficult to understand what's going on in the solution process. I was required to purchase this textbook for a class, otherwise I would not use it and I would have returned it.

Like others I have found this book rather complex. Its examples are often long and tedious and leave a lot of steps and derivations to the reader. Understanding it requires a very strong maths background. I'm using it for a fourth year university subject. After completing a pre-requisite stress analysis subject, I find the jump between Mechanics of Materials (Hibbeler) to this book a rather large one.

This book covers this topic well and conveys concepts clearly. The only negative thing I have to say about it is that the order of the chapters is questionable. My professor taught them in a different order than they were written so it worked out well.

This book is great for students taking stress analysis courses. It has good examples in a vast variety of easy and complex ones. Also, it is possible to get to know about finite element method which is an important topic for engineers.

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