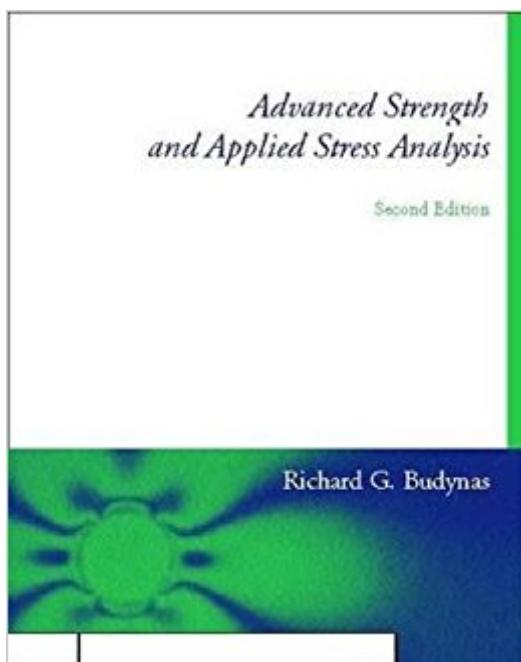


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# Advanced Strength And Applied Stress Analysis



## **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**

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## **Customer Reviews**

Richard G. Budynas is Professor Emeritus of the Kate Gleason College of Engineering at Rochester Institute of Technology. He has over 40 years experience in teaching and practicing mechanical engineering design. He is the author of a McGraw-Hill textbook, Advanced Strength and Applied Stress Analysis, Second Edition; and co-author of a McGraw-Hill reference book, Roark's Formulas

for Stress and Strain, Seventh Edition. He was awarded the BME of Union College, MSME of the University of Rochester, and the Ph.D. of the University of Massachusetts. He is a licensed Professional Engineer in the state of New York.

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.

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.

Some pages were loose inside the book.

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.

Useless.

Good standard advanced book.

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

EVERYTHING IS GREAT. I will come next time. so fast, receive it next day. It's perfect. I love it,

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