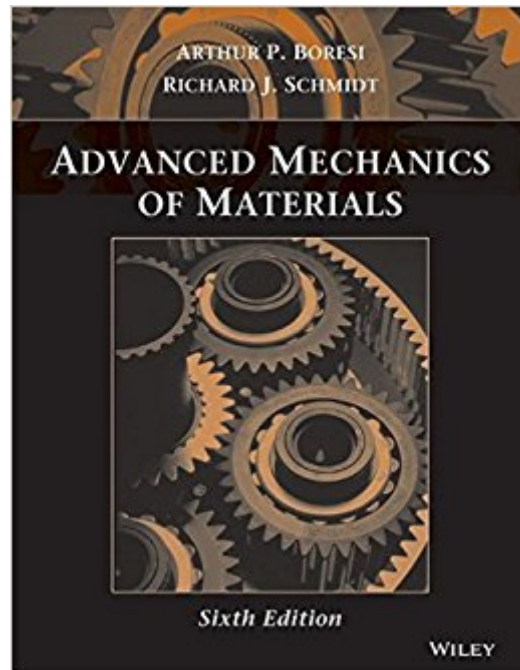


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# Advanced Mechanics Of Materials



## Synopsis

Building on the success of five previous editions, this new sixth edition continues to present a unified approach to the study of the behavior of structural members and the development of design and failure criteria. The text treats each type of structural member in sufficient detail so that the resulting solutions are directly applicable to real-world problems. New examples for various types of member and a large number of new problems are included. To facilitate the transition from elementary mechanics of materials to advanced topics, a review of the elements of mechanics of materials is presented along with appropriate examples and problems.

## Book Information

Hardcover: 681 pages

Publisher: Wiley; 6 edition (October 22, 2002)

Language: English

ISBN-10: 0471438812

ISBN-13: 978-0471438816

Product Dimensions: 8.2 x 1.2 x 10 inches

Shipping Weight: 2.8 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 20 customer reviews

Best Sellers Rank: #86,408 in Books (See Top 100 in Books) #15 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Polymers & Textiles #18 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Strength of Materials #53 in Books > Science & Math > Physics > Mechanics

## Customer Reviews

the bulk part is alwsome but for some practice prob the book is strict to exam and not practical for engineering usage

This book is well written and even manages to maintain an interesting easily read tone. The only reason I don't give it a 5 is because it is not a stand alone text. Aside from stress/strain theories and general planar analysis (Mohr's circle relations, Hooke's Laws), there is not much review of basic mechanics of materials in this book so it is not going to work for students new to mechanics or who are looking to be able to review basic mechanics before you delve into the meat of advanced mechanics. In fact, I recommend having a basic mechanics book available even for the more advanced students because it is often a necessary reference for many of the problems. Aside from

the above drawback, the new material presented in this book is laid out very well and with just enough detail to keep an engineer happy. What I mean by this is that only enough mathematics is used as is necessary, and the author avoids extensive exhausting proofs wherever he can. Some of the advanced topics covered are as follows: Inelastic Material Behavior Applications of Energy Methods Advanced Bending & Torsion Curved Beam Analysis Elastic and Inelastic Foundations Stress Concentrations Fracture Mechanics Fatigue Contact Stresses Creep

The book was delivered in a timely manner in the condition described. The book itself is not very useful. The explanations are very brief and gloss over a lot of material. I had to use some of my other textbooks to look up equations that were required for the problems listed in each chapter. I recommend a different mechanics of materials book. The mech. of. mat. book by Philpot is much better and covers almost all the material in this book, and covers other material.

I use this book for my graduate class in civil engineering. The principles are very well explained and there are a lot of good questions following each chapter to practice.

Indispensable, very good quality book. Gives solid background for the interested parties. Not for faint-hearted, needs solid math knowledge. You need to solve the problems. I would recommend it to my friend.

I find this book very clear and yet it has several topics. But the site where the solutions are supposed to be are rather confusing, and, for some unknown reason, only teachers have access to the answer key. I think a graduation student should be given the right to check his answer, since he is not a kid who will cheat on his homework or anything.

Other than the expensive price, the book is great

Book ok. fast shipping

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