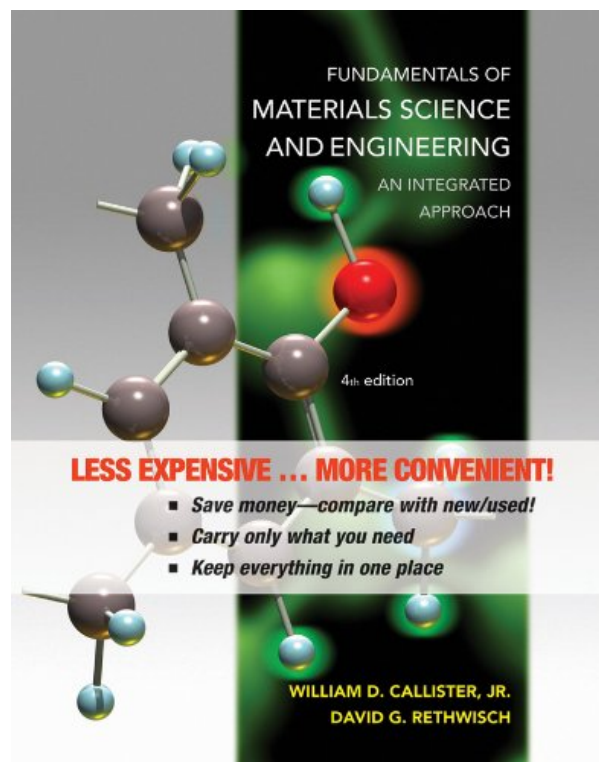
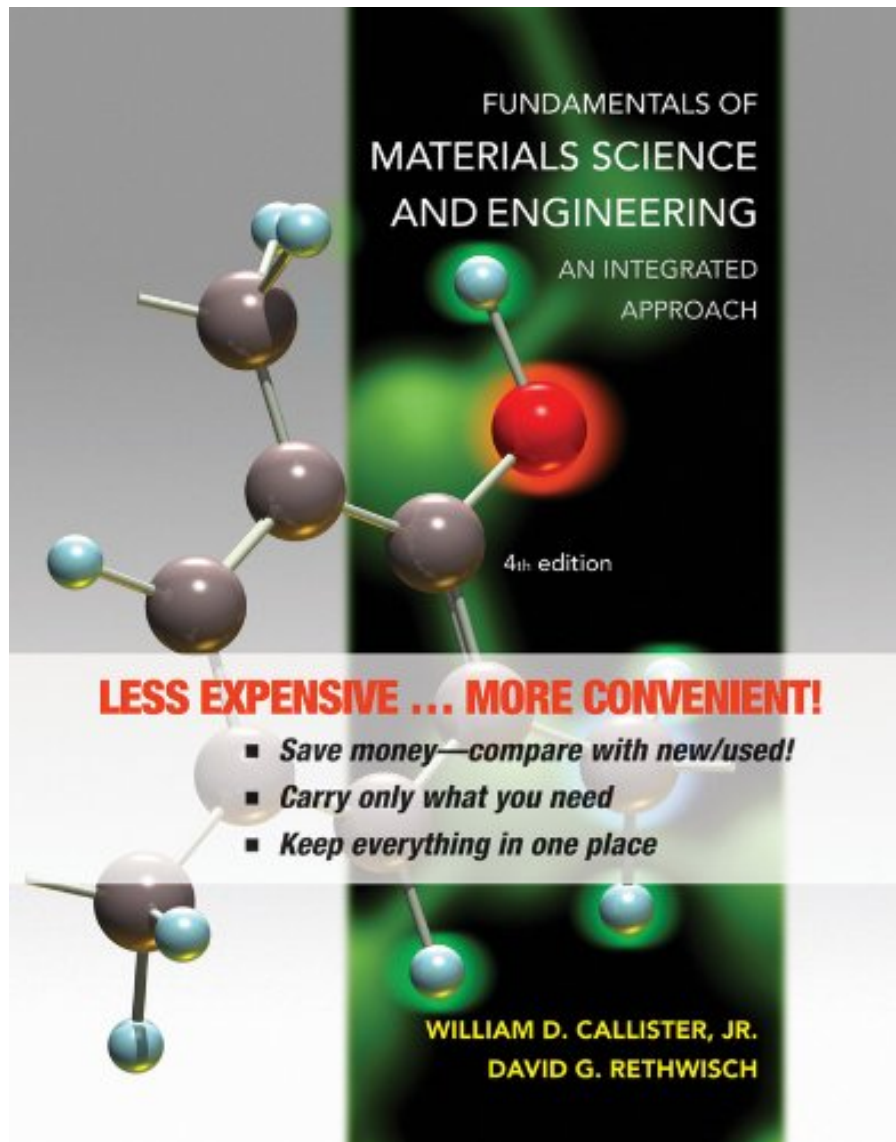


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## About the Author

William D. Callister is currently an adjunct professor in the Department of Engineering at the University of Utah. His teaching interests include writing and revising introductory materials science and engineering textbooks, in both print and electronic formats. He also enjoys developing ancillary resources, including instructional software and on-line testing/evaluation tools.

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Callister and Rethwisch's Fundamentals of Materials Science and Engineering 4th Edition continues to take the integrated approach to the organization of topics. That is, one specific structure, characteristic, or property type at a time is discussed for all three basic material types: metals, ceramics, and polymeric materials. This order of presentation allows for the early introduction of non-metals and supports the engineers' role in choosing materials based upon their characteristics. Also discussed are new, cutting-edge materials. Using clear, concise terminology that is familiar to students, Fundamentals presents material at an appropriate level for both student comprehension and instructors who may not have a materials background.

- Sales Rank: #820623 in Books
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- Number of items: 1
- Dimensions: 10.04" h x 1.26" w x 7.89" l, 3.20 pounds
- Binding: Loose Leaf
- 936 pages

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## Most helpful customer reviews

7 of 8 people found the following review helpful.

Used the 3rd edition for three years (since release), and generally like it

By Pat Bowen

When I began my undergraduate studies in Materials Science and Engineering, this was the book that was required. It's since been a great companion through (almost) all of my undergraduate courses, and is an extremely handy reference as a graduate student. I also had the pleasure of TAing for a section of our Intro. to Materials course this term, and I have some observations about this text. I hope that the publishers and authors work on some of the issues below in the fifth edition (since the fourth doesn't seem to have changed much/any from what I have seen so far).

PROS

1. Great text and figures: the text is highly readable and does a good job of placing nuances of certain equations and figures in plain sight (e.g. the conditional definition of "a" is clearly visible near the fracture toughness equation, etc.).
2. Great introductory/refresher level in ALL areas: the authors avoid giving "special treatment" to their pet subjects like many authors do in other undergraduate texts.
3. Good binding, construction, and paper. (Although this particular "pro" might be a "con" to some, see point #5.)

#### CONS

4. Problems can use a little bit of actual thought before the fifth edition instead of simply rearranging them (again): one of the largest problems with this text is the overuse of tiny figures in the homework. This makes life miserable as a student (trust me, I remember this clearly), and, amazingly, even MORE hellish as a TA and grader. Do the publishers honestly think that students will turn in scanned/printed figures with homework? Of course not! In the 21st century, I would think that there would be a clever way to make access to figures easier, like including them on the (otherwise pretty useless) CD. This pretty much my only problem with this text.

#### OTHER THOUGHTS

5. The cost for a new edition of this is well worth it for an undergraduate materials science student or graduate student preparing for a qualifier. HOWEVER, this is NOT the target audience in real life. Instead, this text is bought and sold quite frequently by mechanical engineers and biomedical engineers who have no interest in hanging onto a book that is worth a month's rent. Could the publishers consider a paperback (or other lower-cost) edition for those folks who don't actually care to hang onto this text?

1 of 1 people found the following review helpful.  
my teacher sucked

By Nick

this textbook saved my life for my materials science class. If you have a bad teacher who doesn't even go through example problems and just reads off years old slides that are somewhat relevant to the topic, this textbook will cover everything you need to know

0 of 0 people found the following review helpful.

A must have for welders and fabricators

By mustached mechanic

I saved a lot of money buying this book through amazon. The price was great and so was the quality. This book was exactly the same that the school was selling used for \$50 more. It came in great condition with notes from the last user (this was a great help in understanding the material) The Book covers the basics of materials science and I'm sure it will be a great resource for years to come. The information in here is very applicable to anyone planning on building products that need to last. The chapter summary's at the end of each chapter have a list of equations and explanation of the variables. The charts are incredibly useful too. I am a fabricator and have referred to the tables multiple time to determine what type of steel to use for different applications.

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