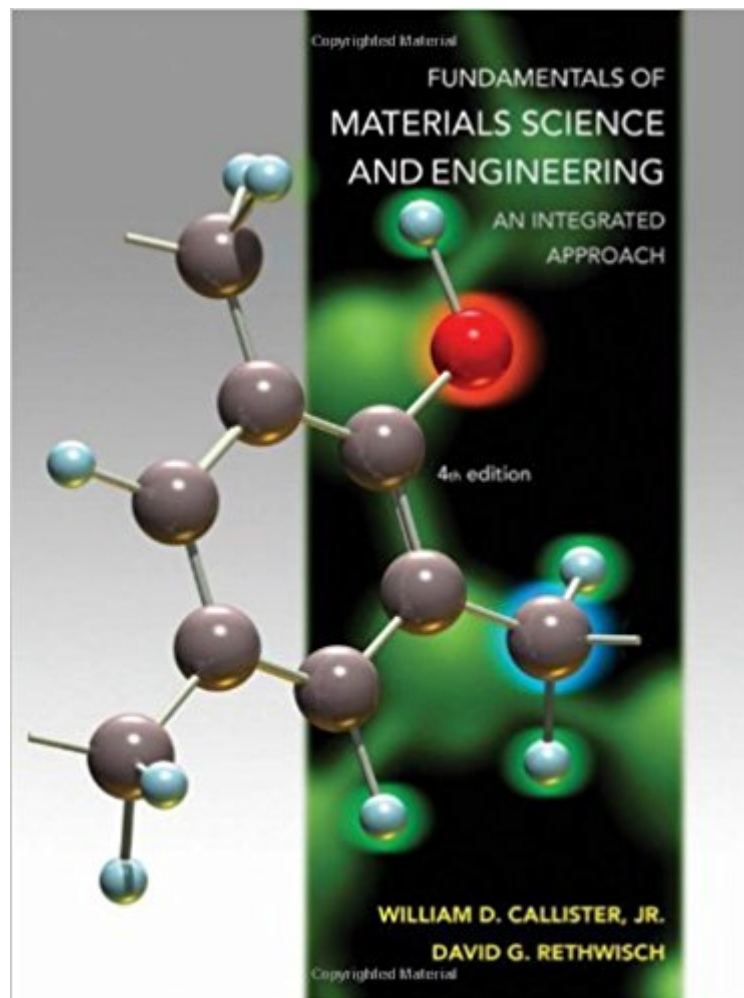




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Fundamentals Of Materials Science And Engineering: An Integrated Approach



Synopsis

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 engineer's 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.

Book Information

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Average Customer Review: 4.1 out of 5 stars 44 customer reviews

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Customer Reviews

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.

I don't have much to compare it to as a materials book. However, it seems to explain concepts fundamental to materials science in an understandable format.

This is one of the better text books I've had. It's easy to follow and helped a lot with the course

considering my professor didn't know how to answer questions.

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

Great basic book for fundamentals. I still go back to this book for the basics!

The text is somewhat confusing. The diagrams are too small and any attempt to magnify results in grainy pictures. Additionally the lack of page numbers makes it difficult to follow along with a class. Locations do not help at all. The formatting seems to be off and can lack cohesiveness unless you can compare it to the hard-copy version.

Book has more short comings than I thought compared to the newer edition. Came very quickly and brand new. No weird smell and no damaged edges makes for a great review!

I saved a lot of money buying this book through . 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.

I just want to warn you that the kindle version is flawed. In many cases the graphics in this book are impossible to make out on the kindle screen, and increasing the font size does not help since they are embedded images, not text. This is true for most of the important equations throughout the book. The images show up better on the "Kindle for PC" application, but they are still pretty small. I usually like kindle books for various reasons, but in this case I would recommend a real copy. I chose to give two stars since it is convenient to be able to search the textbook, and of course it is much easier to haul around than the full sized book. And cheaper. EDIT: I viewed this on a kindle 3. It may look better on a kindle fire.

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