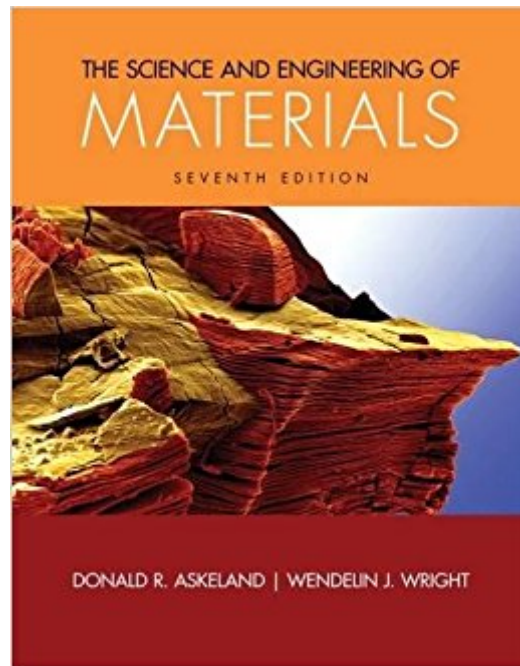


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# The Science And Engineering Of Materials (Activate Learning With These NEW Titles From Engineering!)



## Synopsis

This updated Seventh Edition of THE SCIENCE AND ENGINEERING OF MATERIALS helps you to develop an understanding of the relationship between structure, processing, and properties of materials. Because the book has more material than is needed for a one-semester course, you will also have a useful reference for subsequent courses in manufacturing, materials, design, or materials selection. The Askeland text emphasizes a science-based approach to materials engineering that highlights how the structure of materials at various length scales gives rise to materials properties. This connection between structure and properties is key to innovating with materials, both in the synthesis of new materials and enabling new applications with existing materials. The science-based approach highlights how materials change with time and due to loading and environment - a key concept that is often overlooked when using charts and databases to select materials.

## Book Information

Series: Activate Learning with these NEW titles from Engineering!

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## Customer Reviews

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Chapter openings & intros give you a preview of topics. Each chapter begins with learning objectives to focus and guide you throughout your studies. Master key concepts. Chapter summaries and glossaries of key words with definitions at the end of each chapter help you master key concepts. Real world connection. *Have You Ever Wondered?* sections

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Dr. Donald R. Askeland joined the University of Missouri-Rolla (now the Missouri University of Science and Technology) in 1970 after obtaining his doctorate in Metallurgical Engineering from the University of Michigan. His primary interest is teaching, which has resulted in a variety of campus, university, and industry awards and the development of THE SCIENCE AND ENGINEERING OF MATERIALS textbook. Dr. Askeland is also active in research involving metals casting and metals joining, particularly in the production, treatment, and joining of cast irons, gating and fluidity of aluminum alloys, and optimization of casting processes. Additional work has concentrated on lost foam casting, permanent mold casting, and investment casting. Much of this work is interdisciplinary, providing data for creating computer models and validation of such models. Dr. Wendelin Wright is a professor at Bucknell University with a joint appointment in the departments of Mechanical Engineering and Chemical Engineering. She received her B.S., M.S., and Ph.D. in Materials Science and Engineering from Stanford University. Prior to assuming her position at Bucknell, Dr. Wright was a faculty member at Santa Clara University. Her research interests focus on the mechanical behavior of materials, particularly those of metallic glasses. She is the recipient

of the 2003 Walter J. Gores Award for Excellence in Teaching (Stanford University's highest teaching honor), a 2005 Presidential Early Career Award for Scientists and Engineers, and a 2010 National Science Foundation CAREER Award. Dr. Wright is a licensed professional engineer in metallurgy in California and a Fellow of ASM International.

Got this for my Materials class at Michigan Tech and had no issues at all with the book

Needed this for class and it came as expected.

Definitely not worth the "buy" price. This was a mandatory book that I rented and felt like it could have been a much better book for the price. it doesn't go into depth about a lot of stuff, it gives an overview which I didn't mind.

Great product and quick service

Very well organized book.

for those geeks

I really enjoyed this textbook; it's very readable (and interesting), and it's packed with information.

Hated the class.

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