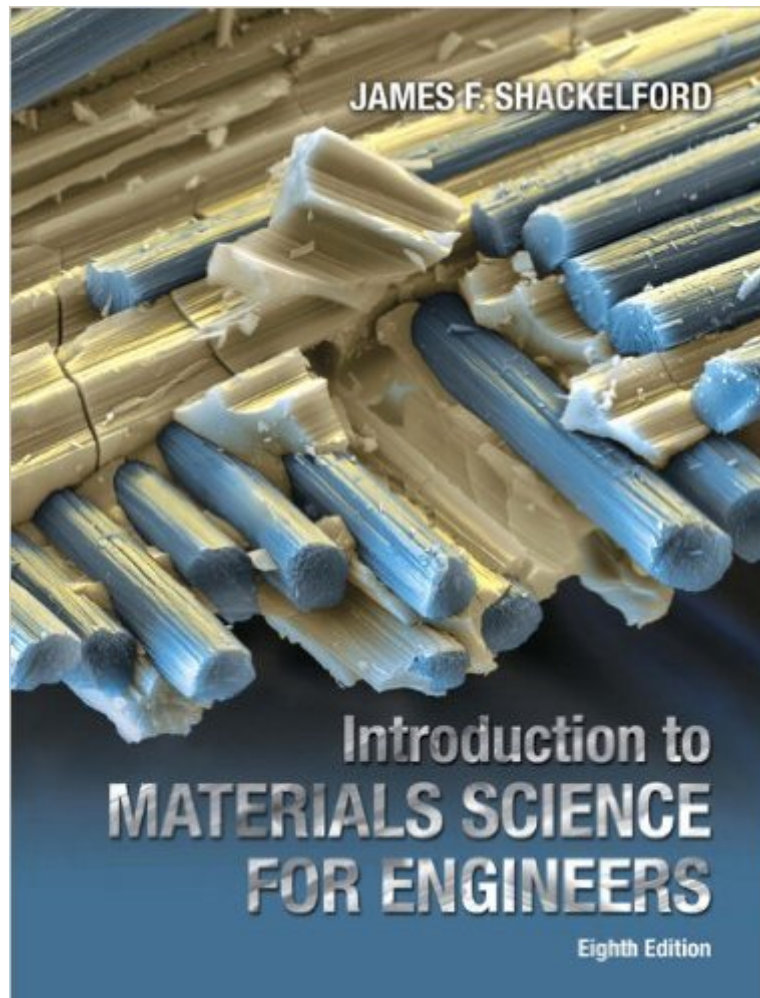




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# Introduction To Materials Science For Engineers (8th Edition)



## Synopsis

This book is intended for use in a first course in Materials Sciences and Engineering taught in the departments of materials science, mechanical, civil and general engineering. It is also a suitable reference for mechanical and civil engineers and machine designers.

Introduction to Materials Science for Engineers provides balanced, current treatment of the full spectrum of engineering materials, covering all the physical properties, applications and relevant properties associated with engineering materials. It explores all of the major categories of materials while also offering detailed examinations of a wide range of new materials with high-tech applications.

MasteringEngineering for Introduction to Materials Science for Engineers is a total learning package. This innovative online program emulates the instructor's office-hour environment, guiding students through engineering concepts from Introduction to Materials Science for Engineers with self-paced individualized coaching.

Teaching and Learning Experience This program will provide a better teaching and learning experience for you and your students. It provides:

- Individualized Coaching with MasteringEngineering : MasteringEngineering emulates the instructor's office-hour environment using self-paced individualized coaching.
- A Balanced Approach Designed for a First Course in Engineering Materials: This concise textbook covers concepts and applications of materials science for the beginning student.
- Coverage of the Most Important Advances in Engineering Materials: Content is refreshed to provide the most up-to-date information for your course.
- In-text Features that Reinforce Concepts: An assortment of case studies, examples, practice problems, and homework problems give students plenty of opportunities to develop their understanding.
- Enhance Learning with Instructor Supplements: An Instructors Solution Manual and PowerPoint slides are available to expand on the topics presented in the text.

Note: You are purchasing a standalone product; MasteringEngineering does not come packaged with this content. If you would like to purchase both the physical text and MasteringEngineering, search for ISBN-10: 0133789713/ISBN-13: 9780133789713. That package includes ISBN-10: 0133826651/ISBN-13: 9780133826654 and ISBN-10: 0133828921 /ISBN-13: 9780133828924. MasteringEngineering is not a self-paced technology and should only be purchased when required by an instructor.

## Book Information

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## Customer Reviews

James F. Shackelford has BS and MS degrees in Ceramic Engineering from the University of Washington and a Ph.D. in Materials Science and Engineering from the University of California, Berkeley. He is currently Distinguished Professor Emeritus in the Department of Chemical Engineering and Materials Science at the University of California, Davis. For many years, he served as the Associate Dean for Undergraduate Studies in the College of Engineering and later as the Director of the University Honors Program that serves students from a wide spectrum of majors. He teaches and conducts research in the structural characterization and processing of materials, focusing on glasses and biomaterials. A member of the American Ceramic Society and ASM International, he was named a Fellow of the American Ceramic Society in 1992, was named a Fellow of ASM International in 2011, and received the Outstanding Educator Award of the American Ceramic Society in 1996. In 2003, he received a Distinguished Teaching Award from the Academic Senate of the University of California, Davis. In 2012, he received the Outstanding Teaching Award of the College of Engineering at UC Davis. He has published well over 100 archived papers and books including Introduction to Materials Science for Engineers now in its eighth edition and which has been translated into Chinese, German, Italian, Japanese, Korean, Portuguese, and Spanish.

I used this text in a graduate material science course for civil engineers with little to no background in material science and while in some areas it proved useful, overall I didn't take much away from using it. This is one of those "baby step" the reader through the reading then expect them to become a full-fledged practicing material scientist secluded to his laboratory only exposing himself to the art of his field 24-hours a day when it comes to the questions. Many questions had me scratching my head as to how I was supposed to glean the information from the text to solve them. I

would not recommend.

Introduction to Materials for Engineers – this is the book that was required for my Nuclear Materials class. This is a very good book. Although I would have only purchased it for a class it is still an interesting book. If you need it for class, I do definitely recommend it. If you are an engineer or scientist that is interested in materials you may like it. The book is broken up into a very logical structure and makes a lot of sense. It is also full of tables and figures to help with the explanation of the reading. The appendixes are also very useful and have been helping greatly with the homework. I use the book daily and will for the remainder of the class. Again, must have for college if the 7th edition is what you are looking for.

I'm renting this textbook for a class. Some Pearson representative got a hold of a professor and convinced him that this was a better book/ teaching method than what he did the last semester. I don't really like it. The book doesn't really teach you anything. It's more like casual reading material. Jumps around. The examples are nothing like the questions in the book. The book itself is poorly put together. Stay with McGraw-Hill textbooks.

This review applies only to this edition (7th). This edition is a significant down-edit of the 6th edition. Whole chapters were removed and only some of them were placed on the publishers website. A page with a password is provided to access the old chapters online, but still I would prefer not having to bother. I recommend buying the 6th edition unless you want to juggle a book and a computer.

This book is not too bad. I think the author could have gone a little more in depth on certain topics. It serves as a great reference to quickly refresh oneself about various topics. The text is easy to read, but does fail to be as engaging as some other texts.

This book is required reading for many schools, so you probably don't have a choice as to whether or not to buy this. If you do have a choice though you can get all the information contained in it elsewhere. Don't waste your money. But if you have to for class, well, I feel your pain.

Awesome book i needed for class.

Received damaged. Returned.

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