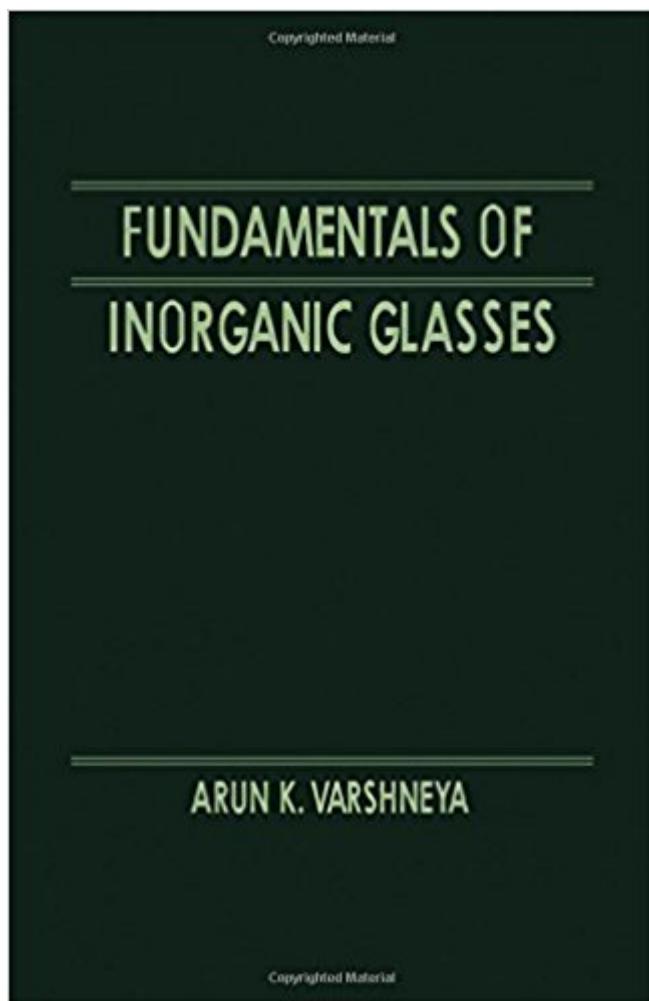


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Fundamentals Of Inorganic Glasses



Synopsis

Although several fine volumes have been published on special topics in glass, *Fundamentals of Inorganic Glasses* is the first book to provide the breadth required of a comprehensive undergraduate textbook. In a clear tutorial style, this volume provides comprehensive coverage of the composition, structure, and properties of inorganic glasses. Designed to serve as the primary text for "glass science" courses at the upper-undergraduate level, this book facilitates learning with a clear discussion of fundamental concepts, chapter-ending problem sets, an emphasis on key ideas, and timely notes on suggested readings. Professor Varshneya has filled a gap in the existing literature by providing a textbook that is uniquely comprehensive while striving always to help the student develop a clear understanding of the fundamentals underlying glass science. Clearly develops fundamental conceptsProvides comprehensive discussion of the composition, structure, and properties of inorganic glassesLeads the reader through areas where a deeper understanding is neededPresents necessary mathematics in a readable mannerIntroduces numerous and interesting real-world examples that give the reader insight into application of the material covered in the textConcludes chapters with problem sets and suggested readings to facilitate self-study

Book Information

Hardcover: 570 pages

Publisher: Academic Press; 1 edition (November 4, 1993)

Language: English

ISBN-10: 0127149708

ISBN-13: 978-0127149707

Product Dimensions: 6 x 1.2 x 9 inches

Shipping Weight: 2.6 pounds (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 stars 3 customer reviews

Best Sellers Rank: #1,682,915 in Books (See Top 100 in Books) #67 in Books > Engineering & Transportation > Engineering > Chemical > Coatings, Ceramics & Glass #346 in Books > Science & Math > Chemistry > Inorganic #653 in Books > Science & Math > Physics > Optics

Customer Reviews

This is by far the best written and most comprehensive text book on glass science. My first exposure to glass science was through this text book as an undergraduate student (junior year). Varshneya provides a thorough and highly readable introduction to the most important concepts in glass structure, properties, and technology, making it the ideal book for newcomers to the field. But

this book goes well beyond that, providing more detailed coverage of important topics such as glass transition range behavior. Even now, over ten years later, I still consult this book on a regular basis, either for reference or for a refresher on a certain topic. I recommend this book without any hesitation to anyone interested in learning about glass science. It is truly the go-to book, both for students and for professionals in the field.

This book is an excellent source for anyone who wishes to gain a better understanding of inorganic glass. Varshneya takes the time to explain the fundamentals in the beginning chapters, then gives the reader the specific scientific explanations necessary to get a good understanding of glass and glass formation. The explanations are not confusing, and the problems at the end of each of the chapters are a good reinforcement of the concepts. If you are at all interested in glass forming, this book is good place to start.

This book is okay. It is a detailed look into glass science-good for finding specifics about glass without having to search through the journals. But, readers be wary, there are many mistakes amongst these pages. Pay particular caution to derivations and figures-I've had to correct many mistakes the author himself pointed out during lectures. My suggestion for getting the most of the book is to read James Shelby's "Introduction to Glass Science," first for a solid understanding, then delve into the same topic in "Fundamentals of Inorganic Glasses." If this is for class good luck!

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