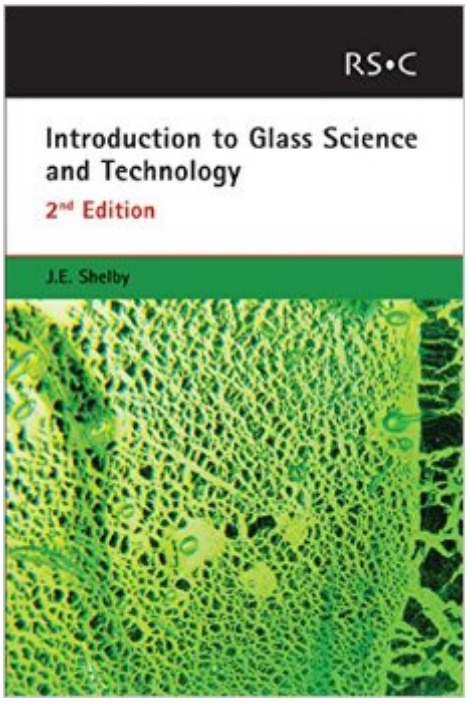
Introduction To Glass Science And Technology (RSC Paperbacks)



Synopsis

This book provides a concise and inexpensive introduction for an undergraduate course in glass science and technology. The level of the book has deliberately been maintained at the introductory level to avoid confusion of the student by inclusion of more advanced material, and is unique in that its text is limited to the amount suitable for a one term course for students in materials science, ceramics or inorganic chemistry. The contents cover the fundamental topics of importance in glass science and technology, including glass formation, crystallization, phase separation and structure of glasses. Additional chapters discuss the most important properties of glasses, including discussion of physical, optical, electrical, chemical and mechanical properties. A final chapter provides an introduction to a number of methods used to form technical glasses, including glass sheet, bottles, insulation fibre, optical fibres and other common commercial products. In addition, the book contains discussion of the effects of phase separation and crystallization on the properties of glasses, which is neglected in other texts. Although intended primarily as a textbook, Introduction to Glass Science and Technology will also be invaluable to the engineer or scientist who desires more knowledge regarding the formation, properties and production of glass.

Book Information

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Customer Reviews

This book is intended for something like "Glass Chemistry 101" and therefore requires a certain amount of knowledge in inorganic chemistry and materials science if you don’t want to spend most of your time translating terminology. However, it’s a very good resource for anyone seeking basic knowledge of glass properties and how they change in different environments.

A truly excellent reference book on glass properties.Easy to read, it gives the reader a thorough knowledge and understanding of glass properties and behavior.It does not cover glass fusion or processing technologies.

I am currently working as a glass engineer (I basically bridge the gap between the research scientists and the manufacturing floor) in Kentucky and I am still referencing this book on a regular basis.In my opinion this and Arun Varshneya’s book are together a great starting point for furthering your personal understanding of glass science. It is true that you may need a bit of experience with Material Science, or at least the terminology, to get all you can out of this book. However, this is a great resource even for a 1st year undergrad. It is easy to read and explains the basic ideas behind glass structure AND manufacturing quite succinctly.

this text is the very best information source on the subject,written in a manner that allows entry to the subject on basic easy to understand terms yet going to the more interesting and complicated details in a fashion that pulls the reader along almost magically.In short it is a brilliant effort!

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