



Introduction to Glass Science and Technology

By James E. Shelby

Royal Society Of Chemistry Jan 2005, 2005. Taschenbuch. Condition: Neu. Neuware - An Introduction to Glass Science and Technology presents the fundamental topics in glass science and technology including glass formation, crystallisation and phase separation. A detailed discussion of glass structure models with emphasis on the oxygen balance model is also presented. Additional chapters discuss the most important properties of glasses, including physical, optical, electrical, chemical and mechanical properties, and new to this edition, water in glasses and melts. Glass technology is addressed in chapters dealing with the details of glass raw materials, melting and fining, and commercial glass production methods. This expanded second edition also includes new chapters on the compositions and properties of commercial glasses and thermal analysis of glasses and melts. Exercises are included at the end of the chapters. This introductory text is ideal for undergraduates in materials science, ceramics or inorganic chemistry. It will also be useful to the engineer or scientist seeking basic knowledge of the formation, properties and production of glass.

TOC: Introduction.- Principles of Glass Formation.- Glass Melting.- Immiscibility/Phase Separation.- Structures of Glasses.- Viscosity of Glass Forming Melts.- Density and Thermal Expansion.- Transport Properties.- Mechanical Properties.- Optical Properties.- Water in Glasses and Melts.-...



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Reviews

It is one of the best books. Better than never, though I am quite late in starting to read this one. You won't feel monotony at any moment of the time (that's what catalogues are for regarding in the event you check with me).

-- **Dr. Kristin Dickens**

This type of book is everything and helped me seek forward and a lot more. We have gone through and so I am confident that I will plan to read again again later on. You will like just how the blogger created this ebook.

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