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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.

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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.

Introduction to Glass Science and Technology by J.E. Shelby

About this book. 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.

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Chapter 1: Introduction Define a glass in terms of its structure and the glass transformation. Describe what happens to the properties (volume, enthalpy, etc.) of a glass-forming melt when it is cooled to room temperature, and contrast that behavior with that from a crystallizing melt.

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C. Koeberl, in Treatise on Geochemistry (Second Edition), 2014. 2.5.4.4 Libyan Desert Glass. LDG is an enigmatic type of natural glass, which occurs in an ~ 2500 km² strewn field located between sand dunes of the southwestern corner of the Great Sand Sea in western Egypt. The glass is very silica-rich, at about 96.5–99 wt% SiO₂, and shows a limited variation in major and trace element ...

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ÆThe modern sheet glass process was first developed by Fourcault circa 1914 in Belgium. ÆSheet of glass is drawn vertically through a "debiteuse", a refractory block with a slit across its width immersed in the molten glass. ÆGlass rises through the slit under hydrostatic pressure and a bait is used to raise the sheet.

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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 --Thermal analysis of glasses --Glass technology --Compositions and properties of commercial glasses.

Introduction to glass science and technology / J.E. Shelby.

" The Tutorial Symposium offered as an Introduction to Glass Science in Alfred represents an earnest attempt to ful fill this need. It has been designed to provide both broad and technical instruction for participants and readers who are not specialists. Glass is not only a material but a condition of matter: the vitreous state.

Introduction to Glass Science | SpringerLink

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 ...

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Cable, M. (1991) Classical Glass Technology, Materials Science and Technology, 9, VCH Publishers, New York. Cable, M. (199 9) J.Am.Ceram.Soc., 82, 1093. Colombar, P ...

Glass: Mechanics and Technology

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.

9780854046393: Introduction to Glass Science and ...

Commonly called "glass", they may form from inorganic compounds (e.g. SiO₂ /silicates, B₂O₃ /borates, GeO₂ /germanates, P₂O₅ /phosphates, V₂O₅ /vanadates, As₂O₅ /arsenate, Sb₂O₅ /stibnates), organic compounds (e.g. polymers), elements (e.g. sulfur), and even metal alloys (e.g. Fe 80 B 20).

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