



Glass Chemistry

By Vogel, Werner / Kreidl, N.

Condition: New. Publisher/Verlag: Springer, Berlin | Glass Chemistry is concerned with the relation of chemical composition, structure and properties of various glasses. The book has been translated from the third German edition, which serves as a textbook for university students in materials sciences and a reference book for scientists and engineers in glass science and production. The central themes of the book are the chemistry and physics of glass. Detailed knowledge of the compositional and structural facts is the basis for the systematic development of new glasses as construction and optical materials. Glass Chemistry is an interdisciplinary book on the borderlines between chemistry, physics, mineralogy and even biology and medicine. The book represents a well balanced treatment for students, scientists and engineers. | 1 Historical Development of Glass Chemistry.- 1.1 The Beginnings of Glass Research.- 1.2 History of the Chemistry of Optical Glass.- 1.2.1 Ernst Abbe and Otto Schott.- 1.2.2 Carl Zeiss and the Zeiss Foundation.- 1.2.3 The Development of New Optical Glasses after 1939.- 1.3 History of Technical Glass.- 2 Freezing of a Melt to a Vitreous Solid.- 2.1 Fusion and Crystallization. General.- 2.2 Significant Differences Between Crystalline and Non-crystalline (Glassy) Solids.- 2.3 Standard Viscosity Temperatures for Solidification of Glasses.-...



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