



## Properties of Glass-Forming Melts

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This book presents state-of-the-art information concerning properties and processes involved in glass melts. Based upon contributions by renowned authors and scientists working with glass melt systems, Properties of Glass-Forming Melts is an excellent compilation of the current knowledge on property data, mechanisms, measurement techniques, and structure-related properties of glass-forming. The authors provide in-depth analyses of such topics as glass-melt density, thermal expansion, heat conductivity, and chemical activities.

Each chapter combines fundamental concepts with a compilation of recent and reliable data that is essential in the modeling of glass melting, fining, conditioning, and forming. The book first discusses the glass-forming melts, thermodynamics, transport properties, and redox effects of glass. This provides a sound basis to the analysis of important properties of glass melts such as viscosity, surface tension, density, and heat capacity as well as more generalized subjects of heat transfer and gas solubility. A chapter on electrical properties provides a solid foundation for understanding glass melting via direct Joule heating of the melt. The examination of the corrosive nature of molten glasses will be of great interest to tank designers and operators. This unique handbook concludes with an overview of nuclear waste vitrification, a growing discipline that relies on current data and encourages research in glass melts.

This book is an ideal starting place for future-generation glass scientists and an effective reference for scientists who require data on the behavior of viscous melts and for glass technologists who apply mathematical models simulating the melting and forming processes. Properties of Glass-Forming Melts offers a one-of-a-kind and valuable source of reliable data and insight by those with firsthand knowledge and experiences in this field.

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