



## Glass Science, 2nd Edition

*By Robert H. Doremus*

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### Glass Science, 2nd Edition By Robert H. Doremus

This edition retains its pedagogical structure but has been extensively revised and updated. Features advances in the field pertaining to the latest developments on fatigue and fracture as well as environmental aspects of some hazardous materials and their effects on glass during long term storage. Contains a new description of the oxidation state of glass and its components based on the phase rule. Includes a new chapter on chemical durability with recent information regarding corrosion of glass and radioactive waste disposal.

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## **Glass Science, 2nd Edition By Robert H. Doremus Bibliography**

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## **Editorial Review**

From the Back Cover

Glass science has advanced rapidly over the past two decades. The structure and chemical durability of different glasses is now better understood, and far more efficient processing methods have been developed. Many of these advances were based directly on discoveries made in the 1960s, when the basic sciences were concentrated on unveiling the structural and compositional mysteries of glass. This Second Edition of Robert H. Doremus's classic, *Glass Science*, has been extensively revised and updated to reflect recent advances, while retaining the pedagogical structure that made its predecessor a superb tool for both teaching and professional research. Special emphasis is placed on areas of research that have been particularly active in recent years. Two new chapters have been added: one covers chemical durability (the reaction of glass with water), which includes recent work related to corrosion of glass and radioactive waste disposal; the other concerns the reaction of gases with glass, especially oxygen. Other new or expanded discussions cover recent advances in the structure of glass, zirconium fluoride glasses, and electrical conductivity of glass. This book is a rich source of information for virtually anyone who is involved in the study, research, or production of glass. A first-rate reference, it is divided into six sections: structure and microstructure, viscosity and structural relaxation, strength, chemical properties, electrical properties, and optical properties. *Glass Science* is also an excellent textbook for advanced undergraduate and graduate courses in glass science or materials science.

## **Users Review**

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**Avis Zeiger:**

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