

1. Record Nr.	UNINA9910792485903321
Titolo	Analysis of the Composition and Structure of Glass and Glass Ceramics [[electronic resource] /] / edited by Hans Bach, Dieter Krause
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1999
ISBN	3-662-03746-7
Edizione	[1st ed. 1999.]
Descrizione fisica	1 online resource (XVIII, 528 p.)
Collana	Schott Series on Glass and Glass Ceramics, Science, Technology, and Applications, , 1431-7907
Disciplina	530.41
Soggetti	Condensed matter Engineering Analytical chemistry Materials science Physical chemistry Condensed Matter Physics Engineering, general Analytical Chemistry Characterization and Evaluation of Materials Physical Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Overview -- 2. The Chemical Analysis of Glasses, Glass Ceramics, and Related Materials -- 3. The Quasi-Static Structure of Oxide Glasses -- 4. Dynamics of the Glass Structure -- 5. Chemical Resistance and Corrosion, and Ion Release -- 6. Analysis and Diagnosis of Local Defects -- List of Contributors -- Sources of Figures and Tables.
Sommario/riassunto	This book is one of a series reporting on international research and development activities conducted by the Schott Group companies. With the series Schott aims to provide an overview of its activities for scientists, engineers, and managers from all branches of industry worldwide where glass and glass ceramics are of interest. Each volume begins with a chapter providing a general idea of the current problems, results, and trends relating to the subject treated. This volume lays the

foundations for - supervision of production processes, including raw materials, evaporation from the melt, exhaust gases, and environmental concerns; - troubleshooting in case of glass defects in combination with research for the design of faultless (in the ppm range) or at least high-yield processes; - understanding the origin of customer complaints because of unfulfilled expectations concerning material properties or product behaviour. The book is conceived as a monograph. The individual chapters, however, are written by leading Schott experts on the corresponding subjects. Many figures, tables, and examples are chosen to introduce the reader to thin-film science and technology.

---