

## Surfaces and Interfaces of Glass and Ceramics (Materials Science Research) (Volume 7)



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Awarenes s of the great significance of surface constitution in understanding the behavior and perforITlance of ITlaterials has been growing in proportion to the ITleans which have becoITle available for surface study. Recent years have seen iITlportant advances in analytical tools and ITlethods; their applications to date will certainly suggest ITlany other fruitful lines of investigation. The Conference "Surfaces and Interfaces of Glass and CeraITlics" held at the New York State College of CeraITlics at Alfred University under the sponsorship of the U.S. ArITly Research Office, DurhaITl, and the National Aeronautics and Space AdITlinistration, in August 1973, was tenth in the Uni versity Series in CeraITlic Science, held in rotation aITlong North Carolina State University, the University of California at Berkeley, the University of Notre DaITle and Alfred Uni versity. The chapters are arranged in order of their particular eITlphasis beginning with those principally concerned with analytical ITlethods. Chapters dealing with friction and wear follow, highly topical in the present-day concern with effi cient use of energy in finishing processes, on the one hand, and the avoidance of preITlature failure by frictional daITlage to ITloving parts on the other. Surface reactions are then considered, including the iITlportant questions of physiological interactions with ceraITlic candidates for prosthetic applica tions. Material-ITlaterial interfaces and transition zones are discussed through exaITlples which include grain bound aries in ceraITlics as well as interfaces aITlong various solid, liquid and gaseous phases.

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