

CONTENTS

Molten Glass-Refractory Metal Systems	
A Corrosion Model for metals in Molten Glass	3
The Bubbling Potential of Molybdenum and Tungsten and Their Alloys in Soda-Lime-Silica Glasses	17
Interaction of Molybdenum with Molten Glass	39
Corrosion and Electrochemical Protection of Molybdenum in Molten Silicate Glasses	59
Molten Glass-Refractory Oxide Systems	
Corrosion: A Review of Some Fundamentals	81
Thermodynamic Calculation of Gas/Slag/Refractory Equilibria in Coal Gasification	91
Use of Fused-Cast AXS Products and Their Monolithic Derivatives in Applications for the Ceramic Industry	105
Exudation and Corrosion Behavior of Fusion Cast AZS Refractories	131
High-Temperature Corrosion Resistance of Glass Refractories and Electrodes	155
Corrosion of Dense Chromic Oxide Refractory in E Glass	171
Post-Mortem Study of Glass Melting Furnace Refractories	179
Atmosphere-Refractory Oxide Systems	
Glass Furnace Waste Gas Chemistry	195
Three-Dimensional Modeling of Alkali Volatilization/Crown Corrosion in Oxy-Fired Glass Furnaces	205
The Influence of Oxy-Fuel Combustion Atmosphere in Glass Furnaces on Refractory Corrosion	217
Metals/Nuclear Waste Vitrification-Refractory Oxide Systems	
Melter Component Performance During Surrogate Low-Level Mixed Waste Vitrification Campaigns	241
Electrode Corrosion in Simulated Low-Level Nuclear Waste Glass Melts	253
Corrosion Assessment of Refractory Materials for Waste Vitrification	273
Crucible Materials for the Plasma Treatment of Radioactive Waste	289
Materials Performance in a High-Level Radioactive Waste Vitrification Systems	295
Electrochemical Corrosion and Protection of Electrodes for a Simulated High-Level Waste High-Temperature Glass Melter	311
Electrical Corrosion of Inconel 690 as an Electrodes Material for Waste Glass Melters	327