Table of Contents

Preface	
Fundamentals of Molten Salt Corrosion C.A.C. Sequeira	3
Electrochemistry of Corrosion in Molten Salts C.A.C. Sequeira	41
Mechanism of Growth, Composition and Structure of Passive Films Formed on Ni, Fe and their Alloys in Molten Salt Electrolytes T. Tzvetkoff	61
Hot Corrosion in Gas Turbines C.A.C. Sequeira	85
Fireside Corrosion in Boilers and Waste Incinerators C.A.C. Sequeira	105
Corrosion of Alloys and Metals by Molten Nitrates R.W. Bradshaw and S.H. Goods	117
Corrosion of Structural Materials in Molten Carbonate Fuel Cells: An Overview S. Frangini	135
Corrosion Protection in Molten-Carbonate Fuel Cells M. Keijzer	155
Molten Salt Corrosion of Ceramic Materials C.A.C. Sequeira, N.R. Sousa and Y.Z. Chen	171
Corrosion of Ceramic and Cermet Inert Anodes for Use in Aluminium Electrolysis I. Galasiu, R. Galasiu and J. Thonstad	185
Corrosion of Refractory Materials by Molten Glass P.S.D. Brito and C.A.C. Sequeira	199
Molten Salt Corrosion of Intermetallic Materials C.A.C. Sequeira, N.R. Sousa and P.S.D. Brito	209
Molten Salt Corrosion of Intermetallic Materials by Electrochemical Impedance Spectroscopy C. Zeng and Y. Niu	217
Hot Corrosion in Fossil Fuel Fired Power Plants T.R. Griffiths and N.J. Phillips	235
The Role of Molten Salts on the Corrosion of Metals in Waste Incineration Plants M. Spiegel	253
Electrochemical Polarization Study of Hot Corrosion of Iron and Iron-Based Alloys in Alkali Sulfate Containing Iron-Sulfate	
H. Numata Electrochemical Corrosion Studies of Uncoated and Coated Ni-Base Superalloys in Molten	269
Sulphate H.J. Rätzer-Scheibe	295
The Use of Electrochemical Techniques to Study Steel Corrosion in Halide Molten Salt J.M. Malo, J. Uruchurtu and C. Martinez	311
Copper Catalytic Self-Dissolution in NaCl-KCl Melt Containing Rare Refractory Metal Complexes	225
S.A. Kuznetsov and S.V. Kuznetsova Solubility of Silica and Alumina in Sodium Sulphoto Sodium Vanadata Vanadium	325
Solubility of Silica and Alumina in Sodium Sulphate-Sodium Vanadate-Vanadium Pentoxide Melts C.A.C. Sequeira, Y.Z. Chen and F.D.S. Marquis	335