

# Table of Contents

<b>Research in Corrosion</b>	
J.S.L. Leach	3
<b>Structure and Reactivity of Metallic Interfaces</b>	
W.J. Plieth	13
<b>Influence of Metallurgical Variables on Corrosion</b>	
P. Rodriguez	31
<b>Corrosion Education - Why and how?</b>	
S.N. Banerjee	43
<b>Studies of Passivity Using Exafs</b>	
J. Kruger and D.K. Tanaka	49
<b>Environmental Effects in Fretting, Fatigue and Fretting-Fatigue</b>	
R.B. Waterhouse	63
<b>Selection and Behaviour of Materials in Nuclear Reactor Water System</b>	
H.S. Gadiyar	81
<b>Effect of Direct Current on Oxidation and Tarnishing Processes</b>	
S.C. Sircar	115
<b>The Passivity Film Theories - Experimental Facts and Interpretations</b>	
C.V. D'Alkaine	135
<b>Remote Monitoring of Electrochemical Protection Systems in North America</b>	
J.D. Trim and J.I. Munro	145
<b>Mechanism of Corrosion Inhibition of N-80 Steel in Sodium Chloride Solution Using Corrosion Inhibitors</b>	
K.C. Koshel and S.S. Virmani	159
<b>Activating Effect of Sulphur Dioxide in Atmospheric Corrosion Processes</b>	
Y. Mikhailovsky and N. Sokolov	169
<b>Corrosion in Drill Pipes and their Remedies (Coating)</b>	
U.S. Kooner	181
<b>Copper and Al-Cu Stress Corrosion in Artificial Sea Water</b>	
G. Joseph, R. Perret and M. Ossio	185
<b>Specificity of Chlorine Ions Effect on Corrosion of Cr18 Ni10 Type Steels in Boiling Nitric Acid</b>	
D.M. Kramarenko, E.V. Yegorikhin, M.N. Fokin and B.M. Gusev	199
<b>Aspects of Localised Corrosion of Condenser Tube Materials in Chloride Media</b>	
D.N. Roy and A.K. Sinha	203
<b>Modeling of Electrochemical Processes during Transgranular Stress Corrosion Cracking of Copper-Base Alloys</b>	
U. Bertocci and E.N. Pugh	219
<b>The Effects of Silicon Carbide Whiskers on the Initiation and Propagation of Pits on Silicon Carbide/Aluminium Metal Matrix Composites</b>	
P.P. Trzaskoma	231
<b>Corrosion Behaviour of P/M Austenitic Stainless Steels</b>	
C. Ranninger, A. Torres, M.L. Aparicio, J.M. Ruiz, J.M. Torralba and R. Martinez	241
<b>Testing of some Hard Gold Properties on Contact Elements</b>	
D. Rajhenbah	251
<b>Prolonged Effect of Hydrogen Sulphide and Carbon Dioxide on Duplex Steel</b>	
S. Kapoor, S.B.L. Bhatnagar, V.K. Tiwari, S. Prakash, A.K. Patwardhan and K.L. Goyal	265
<b>Atmospheric Corrosion</b>	283
<b>Basic Aspects of Corrosion</b>	289
<b>Biological Corrosion</b>	293
<b>Case Studies</b>	295
<b>Cathodic Protection</b>	301
<b>Coatings and Linings</b>	307
<b>Corrosion in Concrete Structures</b>	317

<b>Corrosion Resistant Alloys</b>	323
<b>Economics, Education and General Aspects</b>	329
<b>Environment Assisted Corrosion</b>	331
<b>Hydrogen Permeation and Embrittlement</b>	337
<b>Industrial Corrosion Problems</b>	339
<b>Inhibitors</b>	341
<b>Localised Corrosion</b>	343
<b>Marine Corrosion</b>	347
<b>Non-Aqueous Corrosion and Liquid Metal Embrittlement</b>	349
<b>Oxidation/Hot Corrosion</b>	351
<b>Passivation and Surface Film</b>	353
<b>Testing, Monitoring and Standards</b>	355
<b>Panel Discussion</b>	359