

Contents

Stainless Steel Production, Present Status and Progress in Technology and Economics	1	2.7 Crevice Corrosion Resistance of Stainless Steels in Natural Sea Water. Results of a Paneuropean Test Programme	83
<i>H. Stawowy</i>		<i>J.-P. Audouard, D. Thierry, D. Feron, C. Compère, V. Scotto, B. Wallen, A. H. Stigenberg, T. Rogne</i>	
Stainless Steels – Prospects for the Year 2000	8	2.8 Highly Corrosion Resistant Cast Alloys – Experiences and Test Results in Comparison with Wrought Alloys	89
<i>J. P. Schade</i>		<i>H.-J. Niederau, G. W. Overbeck</i>	
Application of Corrosion Resistant Steels in the Chemical Industry; Importance, Experiences and Future Requirements	12	3.1 Some more about Duplex Stainless Steels and their Applications	97
<i>G. Heinke</i>		<i>J. Charles, M. Verneau, B. Bonnefois</i>	
1.1 Cr 13 LC – A New Low-Carbon Ferritic-Martensitic 13 % Chromium Steel with Improved Properties	28	3.2 Metallurgy of High Power Laser Welded Duplex Stainless Steels; Nitrogen Distribution and Nitrides Precipitation and their Effects on Corrosion Resistance	104
<i>I. von Hagen, M. Keller, R. Pöpperling</i>		<i>T. Omura, T. Kushida, Y. Inaba, T. Kudo, M. Hirano, T. Tanaka, T. Kobayashi</i>	
1.2 The Influence of Vanadium and Molybdenum on the Properties of 18 % Cr Ferritic Stainless Steel Sheet	35	3.3 Effect of W and Mo on the Precipitation Behaviour of the Super Duplex Stainless Steels	112
<i>R. Paton, P. VTMG Scheers, K. Premachandra</i>		<i>Y. H. Lee, K. T. Kim, Y. D. Lee, B. W. Kim, K. Y. Kim</i>	
1.3 Development, Production and Applications of Ferritic-Martensitic High Nitrogen Steels	42	3.4 Optimizing the Hot Deformability of 2205 Duplex Stainless Steel by Thermal/Mechanical Simulation	116
<i>J. Menzel, J. Lueg, W. Kirschner, G. Stein</i>		<i>J. Botella Arboledas, J.-L. Martos Tirado, R. Sánchez Rodríguez</i>	
1.4 Corrosion Resistant Magnetic Alloys	47	4.1 Contemporary Stainless Steels in Architecture – A Global Perspective	122
<i>T. A. DeBold</i>		<i>G. R. Nemchok</i>	
2.1 New Sulfuric Acid Corrosion Resistant Stainless Steel and its Applications	53	4.2 Atmospheric Corrosion Resistance of High Cr Ferritic Stainless Steels for Architectural Exterior Applications	123
<i>Y. Fujiwara, T. Tohge, R. Nemoto</i>		<i>Y. Yazawa, T. Ujiro, S. Satoh, K. Yamato, H. Kaito</i>	
2.2 Rare Earth Metal Alloyed High Temperature Grades – Characteristic Properties, Applications and Experience	58	4.3 Stainless Steel Membrane Roofs: Progress in Seamwelding Technology	128
<i>M. Segerbäck, B. Ivarsson</i>		<i>S. Nagaitsev, K. B. Maier</i>	
2.3 UR B66: A New High Nitrogen Super Austenitic Stainless Steel with Improved Structure Stability and Corrosion Resistance Properties	63	4.4 The Use of Stainless Steel in Consolidation Works. Electrowelded Meshes for Tunnels	134
<i>J. C. Gagnepain, M. Verneau, B. Bonnefois, L. Coudreuse, J. Charles</i>		<i>F. Capelli</i>	
2.4 Nicrofer 3127 hMo – A Special Austenitic Stainless Steel – Development, Fabrication and Application in the Chemical and Environmental Industry	70	4.5 Stainless Steels for Fasteners for Architectural Application in Highly Corrosive Environments	138
<i>R. Kirchheiner, F. E. White, G. K. Grossmann</i>		<i>N. Arnold, N. Arlt, P. Gümpel, W. Heimann</i>	
2.5 Influence of Sulphur on Weldability, Non-metallic Inclusions and Corrosion using the TIG Welding of X4CrNi18-10 Thin Strips	73	4.6 Use of Stainless Steels for Structural Fasteners Subjected to Aggressive Environments	143
<i>P. R. Scheller</i>		<i>P. Jokiel, M. Boretius, G. Felder</i>	
2.6 Influence of Surface Treatment on the Corrosion Resistance of Stainless Steels	79	4.7 The Use of Austenitic and Duplex Stainless Steels in Ground Anchor Environments	149
<i>P. Gümpel, M. Käßler, K. Neumann, W. Racky, H. J. Grabke</i>		<i>J. Mietz, J. W. Oldfield</i>	
		4.8 Making the Infrastructure Work	157
		<i>D. J. Cochrane</i>	