

"Tetsu-to-Hagané"

Vol.81 No.3, March, 1995

Contents

Lecture	Introduction to Reaction Kinetics for Material Processing (I) / M. SASABE	N84
Commentary	Capacities of Molten Slag / K. ITO	N95
	Relationships between Microstructure and Mechanical Properties in Steels / M. UMEMOTO	157
Paper	Effect of Ar Bubbling on Removal Rate of Alumina Inclusion in Al Deoxidized Steel	
	<i>J. KIM, M. KAWAKAMI and K. TANIDA</i>	167
	Cold Model Experiments on the Enhancement of Scrap Melting in a Bath Accompanied by Gas Injection	
	<i>M. IGUCHI, M. SHINKAWA and Z. MORITA</i>	173
	Levitation and Heating of Metallic Ball in Cold Crucible Simultaneously Supplied with Two Frequencies	
	<i>K. SAKURAYA, T. WATANABE, S. IWASAKI, A. FUKUZAWA, M. YAMAZAKI, T. TAKE and M. FUJITA</i>	179
	Influence of Heating Temperature and Strain on Surface Crack in Carbon Steel Induced by Residual Copper	
	<i>T. KAJITANI, M. WAKOH, N. TOKUMITSU, S. OGIBAYASHI and S. MIZOGUCHI</i>	185
	Development of Accurate Temperature Control in Hot Strip Mill	
	<i>T. ODA, Y. KONDO, S. KONISHI, H. MURAKAMI, M. SUEHIRO and T. YABUTA</i>	191
	Precipitation Behaviour of Titanium Carbo-sulfide in Extra-low-carbon Titanium-added Steels	
	<i>K. YAMADA and M. NIHKURA</i>	197
	Effects of Alloying Elements and Oxygen Potential on Equilibrium Carbon Content in Gas Carburizing	
	<i>N. MURAI, T. TSUMURA and M. HASEBE</i>	203
	Fracture Toughness in the Transition Region of a Carbon Steel and a Ferritic Nodular Cast Iron	
	<i>K. NAKANO and T. YASUNAKA</i>	209
	Long-term Creep Strength Property and Microstructural Stability of 12Cr Steel	
	<i>H. KUSHIMA, K. KIMURA, K. YAGI and K. MARUYAMA</i>	214
	Collective Evaluation of Temperature and Stress Dependence of Creep Rupture Life in Austenitic Stainless Steels	
	<i>H. NAKAKUKI, K. MARUYAMA, H. OIKAWA and K. YAGI</i>	220
	Resistance against the Stable Crack Growth and Brittle Fracture Initiation Site Controlling the Ductile-Brittle Fracture Transition Behaviors of Low Carbon Steels / T. YAGI, A. ITOH and M. NAGUMO	225
	Quality Evaluation of Line Pipes by the Chevron Notched Drop Weight Tear Test	
	<i>T. KUBO, T. SHIWAKU, J. KONDO, H. MIYAZAKI and Y. KAWAGUCHI</i>	231
	Environmental Effect on the Ductile-Brittle Transition of High Purity As-rolled Chromium	
	<i>Y. MATSUMOTO, M. MORINAGA, T. NAMBU, J. FUKUMORI and T. SAKAKI</i>	237
Discussion	X-ray Fluoroscopic Observations of Bubble Characteristics in a Molten Iron Bath (Vol.80, pp515~520, M.Iguchi et al.) / M. SANO	243
ISIJ Information Network		N81