

Contents

Ironmaking and Reduction

- Paper Coking Pressure and Coke Shrinkage in Coke Oven
S. NOMURA and T. ARIMA289

Casting and Solidification

- Paper Deformation Behavior of Borated 18Cr-8Ni Stainless Steel Accompanied by Eutectic Structure during Solidification/H. MIZUKAMI, S. HIRAKI, M. KAWAMOTO and T. WATANABE295
- Behavior of Hydrogen Induced Cracking Originated in Centerline Segregation
K. MURAKAMI, Y. TSUCHIDA, Y. KOBAYASHI, M. NAKADA and S. ENDO301
- Effect of Refractory Materials on Inclusion Deposition of Immersion Nozzle in Continuous Casting and Mathematical Modeling of Inclusion Deposition/K. MUKAI, R. TSUJINO, I. SAWADA, M. ZEZE and S. MIZOGUCHI307

Surface Science and Technology

- Paper Morphology of Electrodeposited Zinc-Cobalt Binary Alloys
K. HAYASHI, Z. TANAKA and K. KONDO314
- Effect of Resin Coating on Electropainting Behaviour of Organic Coated Steel Sheets
H. NAKANO, K. OKUMURA, H. TSUBAKINO, T. NAKAMOTO and K. MIKI319

Physical and Mechanical Properties

- Paper Effect of the Cyclic Hydrogen Charging and Discharging on the Mechanical Properties of SUS304 Steel
J. MORISAWA, N. YOKOTA, K. NAKATA and K. FUKUYA325
- The Roles of Globular $M_{23}C_6$ Carbides in Hydrogen Attack Resistance in C-0.5Mo Steels
K. KIMURA, Y. WADA, R. KAYANO, T. ISHIGURO, K. HATTORI and K. KAWANO332
- Effect of Heat Treatment on Bonding Characteristics and Interfacial Microstructures in Explosively Welded Ti/SUS430 Stainless Steel Clad/Y. MORIZONO, M. NISHIDA, A. CHIBA and K. IMAMURA340
- Effect of Boron on Planar Anisotropy of r -value in Extra-low-C IF Steel Sheet
E. YASUHARA, K. SAKATA and O. FURUKIMI346