

"Tetsu-to-Hagané"

Vol.93 No.6 June, 2007

Contents

Fundamentals of High Temperature Processes

Effects of Alloying Elements on High Temperature Oxidation of 42% Ni Iron-based Alloy T. INOUE, A. KOBAYASHI, K. YAMAUCHI and Y. HOSOYA	409
Thermal Conductivity Measurements and Prediction for R ₂ O-CaO-SiO ₂ (R=Li, Na, K) Slags S. OZAWA, R. (KOJIMA) ENDO and M. SUSA	416
Chlorination and Evaporation Behaviors of PbO-PbCl ₂ System in Ar-Cl ₂ -O ₂ Atmosphere H. MATSUURA and F. TSUKIHASHI	424
Crystal Alignment of Sn-Pb Alloy by Controlled Imposition of a Static Magnetic Field and an Alternating Electric Current during Solidification M. USUI, K. IWAI and S. ASAII	434
Prediction of Occurrence Region of Swirling Liquid Jet in Transient Period in Water Bath with Top Oil Layer (Note) D. IGUCHI, T. OHMI and M. IGUCHI	472

Ironmaking

Influence of Inert Materials on Contractile Behavior and Fissure Formation of Coke K. FUKADA, T. YAMAMOTO, I. SHIMOMYAMA, T. ANYASHIKI, H. FUJIMOTO and H. SUMI	438
--	-----

Surface Treatment and Corrosion

Local Surface Coating with Al Powder for Iron by Using a Laser-heating T. SUZUKI, M. TANGE, T. MORITA, T. HAYASHI, K. MURAKAMI, Y. TOMOTA and K. MAEKAWA	445
---	-----

Transformations and Microstructures

Effect of Niobium or Vanadium on Mechanical Properties of Hot Rolled High Strength Steel Sheets for Automotive Use D. KONDO, K. KUNISHIGE, R. UEJI and S. HASHIMOTO	451
Yielding Behavior and Change in Dislocation Substructure in an UltraLow Carbon Martensitic Steel K. NAKASHIMA, Y. FUJIMURA, H. MATSUBAYASHI, T. TSUCHIYAMA and S. TAKAKI	459

Mechanical Properties

Characterization of Creep Deformation Behavior of 2.25Cr-1Mo Steel by Stress Change Test H. HAYAKAWA, D. TERADA, F. YOSHIDA, H. NAKASHIMA, A. KANAYA and S. NAKASHIMA	466
--	-----

ISIJ International, Vol.47 (2007), No.6, Synopses and Titles	A20
--	-----
