

"Tetsu-to-Hagané"

Vol.90 No.4 April, 2004

Contents

Ironmaking

- Effects of Volatile Matter of Pulverized Coal on Reducing Agents Rate of Blast Furnace and Combustion
Behavior of Coal Mixture/K. KUNITOMO, T. ORIMOTO, T. NISHIMURA, M. NAITO and J. YAGI190

Casting and Solidification

- Prediction of As-cast Austenite Grain Size for Near-net-shape CC
N. YOSHIDA, Y. KOBAYASHI and K. NAGAI198

Transformations and Microstructures

- Three-dimensional Characterization and Analysis of Steel Microstructure by Serial Sectioning (Review)
M. ENOMOTO183

Mechanical Properties

- Relationship between Type IV Fracture and Microstructure on 9Cr-1Mo-V-Nb Steel Welded Joint
Creep-ruptured after Long Term/T. WATANABE, M. YAMAZAKI, H. HONGO, M. TABUCHI and T. TANABE206

Social and Environmental Engineering

- Technological Outsourcing in Corporate R&D Activities
T. ABE213
- Construction of "Kakuro" as an Improved Furnace of "Tatara" for Pig Iron Making
K. NAGATA220
- Reaction Mechanisms of "Kakuro" for Pig Iron Making from Refining Slag or Iron Sand
K. NAGATA228

ISIJ International, Vol.44 (2004), No.4, Synopses and TitlesA14
