

"Tetsu-to-Hagané"

Vol. 58, No 9, Aug., 1972

Contents

Foreword

Utilization of Oxygen to Steel Making *Yoshimasa AOYAMA*...1191

Technical Papers

Transfer of Carbon from Graphite to Liquid Iron through Carbon Monoxide Gas *Y. KAJIWARA, N. SANO, and Y. MATSUSHITA*...1193

Investigations of Some Characteristics Concerning to Gas-permeability and Stock Movement of Blast Furnace *Y. KUWANO, S. YAMAMOTO, K. HONDA, T. Chan, and C. NAKANE*...1203

Kinetic Study of Dephosphorization of Liquid Iron with Solid CaO *F. ARATANI and K. SANBONGI*...1217

Kinetic Study of Dephosphorization of Liquid Iron with Oxidizing Slag *F. ARATANI and K. SANBONGI*...1225

Mechanism of Precipitation Hardening in 8Ni-6Cr Maraging Steel *I. KIMURA, H. YADA, and T. NAKAZAWA*...1232

Heat Treatment Characteristics of Tool Steels Quenched from Liquid State *T. ARAI and N. KOMATSU*...1246

A Study of the Removal of Nitrogen from Steel in Hydrogen Atmosphere *T. MORI, E. ICHISE, and Y. NIWA*...1264

A Method of State Analysis of Iron in Pseudo-Rust *K. SUMI, T. HATA, and T. HAGIWARA*...1280

Technical Report

Computing Control System at No 2 LD Plant in Muroran Works *S. TSUZUKI, K. KOKAI, and T. UCHIDA*...1289

Commentary

Accuracy and Standards of Temperature Measurement *Seiji TAKATA*...1294

Technical Review

Relation between Structure of Ingot and Solidification Variables *Taira OKAMOTO*...1302

Report of Joint Research Society of ISIJ

Study on the Analysis of Iron and Steel by X-Ray Fluorescence Using an Correction Technique *Toshio WATANABE*...1317

Research Note

On Titanium Carbo-Nitrogen Sulphide in Steel Containing Titanium *K. NARITA and H. MATSUMOTO*...1330

Reports

Report of the 3rd Japan-USSR Joint Symposium on Physical Chemistry of Metallurgical Processes *The Scientific Delegation of the Iron and Steel Institute of Japan to USSR*...1333

On Future Research Activities in the Field of Iron and Steel1346

Recommended Equilibrium Values for the Reactions $4\text{CaO(S)} + \text{P} + 5\text{O} = 4\text{CaO} \cdot \text{P}_2\text{O}_5\text{(S)}$ *Y. MATSUSHITA and H. SAKAO*...1350

Abstracts.....1178, Library News.....1187, Notices to Members.....N123, Proceednigs of the Institute.....N131

Overseas membership: Annual charges: \$ 10.00 (incl. postage) Initiation fee: \$-1.00