

"Tetsu-to-Hagané"

Vol. 61, No 7, May, 1975

Contents

Technical Papers

- Dimensionless Groups on a Countercurrent Reduction of Iron Ore.....T. SÔMA... 909
- On the Hydrogen and Carbon Contained in the Volatile Matter of
Metallurgical Coke.....T. CHANG and M. TATE... 917
- Reduction Rate of Iron-Oxide Pellets under Heating Series
.....Y. IGUCHI, A. MAKI, and M. INOUE... 925
- A Mathematical Model of Blast Furnace Based on the Assumption
of Uniform Distribution of Burdens and Gas.....C. MYONG and M. TATE... 935
- A Mathematical Model of Blast Furnace Considering Uneven
Distribution of Burdens and Gas.....C. MYONG and M. TATE... 948
- A Study on Bonding Mechanism of Aluminum Clad Steel by Cold Rolling
.....M. MAEDA and S. TESHIMA... 957
- The Effect of Thermo-Mechanical Treatments on the Fatigue Strength of
Type 316 Stainless Steel.....T. ISHII, K. KROMP, and B. WEISS... 963
- Toughness of High Strength Ni-Cr-Mo-V Steels Containing 1~5% Nickel
.....T. ARAKI, M. SHIN, and R. SAGWA... 972
- Influence of Crystallographic Texture on the Strength and Toughness
of the Controlled Rolled High Tensile Strength Steel
.....H. INAGAKI, K. KURIHARA, and I. KOZASU... 991
- Embrittlement due to the High Temperature Solusion
Annealing in 18% Ni Maraging Steels
.....K. HOSOMI, Y. ASHIDA, H. HATO, and K. ISHIHARA...1012
- Effect of Alloying Elements on the Mechanical Properties of High
Strength Cast Steels for Roll Use.....K. SUZUKI, T. NISHI, and T. MUTA...1028
- Effect of Cold Drawing and Hot Dip Aluminizing on Stress Corrosion
Cracking of 18-8 Stainless Steel Wire
.....Y. KAWABATA, H. NISHIZAWA, T. NISHIMURA, K. IKOMA, and M. MATSUBARA...1054
- Indirect Determination of Phosphorus in Iron and Steel by Atomic
Absorption Spectrometry.....T. SUZUKI, H. MORINAGA, and A. SASAKI...1063

Special Lecture

- Recent Trend of Research and Manufacturing Technique of
Refractories for Steel Industry.....K. MIYATAKE...1069
- Theoretical Studies of Rolling Made Great Contribution
to Rapid Progress of Iron and Steel Industry in Japan.....H. SUZUKI...1078

Abstracts.....1088, Library News.....1095, Notice to Members.....N85,
Proceedings of the Institute.....N90

Overseas membership: Annual charges: ¥6000 (incl. postage) Initiation fee: ¥600

© The Iron and Steel Institute of Japan, 1975