

"Tetsu-to-Hagané"

Vol. 66 No. 5, April, 1980

Contents

Technical Papers

- Theoretical Study on Effective Diffusivities of Bi-disperse Porous Solids at Constant Pressure M. OHMI, T. USUI, K. NAKAJIMA... 449
- Charging Behavior and Gas Distribution Considering Blast Furnace Aerodynamics..... K. NARITA, S. INABA, M. SHIMIZU, I. KOBAYASHI, K. OKIMOTO, and A. YAMAGUCHI... 459
- Effect of Dissolved Oxygen on the Rates of Evaporation of Liquid Iron and CopperS. HAYAKAWA, T. CHOH, and M. INOUE... 469
- Model Experiment on Continuous Degassing with Inner Circulation and Its Analysis..... T. UEDA, S. FURUYAMA, and R. NAKAGAWA... 478
- Mass Spectrometric Study of the Activity in Liquid Fe-Si Alloys at 1600°C K. YAMADA, H. ABE, and E. KATO... 488
- Characteristics of Plasticine Used in the Simulation of Slab in Rolling and Continuous Casting..... K. CHIJIWA, Y. HATAMURA, and N. HASEGAWA... 496
- Boron-Containing Precipitates Formed on the Prior Austenite Grain Boundaries in High Strength Low Alloy SteelsS. WATANABE and H. OHTANI... 506
- Effect of Cold Working and Heat Treatment on Stress Corrosion Cracking Behavior of SUS 304 Stainless Steel K. TAKIZAWA, Y. SHIMIZU, E. YONEDA, H. SHOJI, and I. TAMURA... 514
- Tensile Properties of a 0.2%C-Ni-Cr-Mo Steel Having Mixed Structure of Martensite and Bainite ...Y. TOMITA, H. NAKAMURA, and K. OKABAYASHI... 523
- Observation of the Sliding Wear Trace of Borided SteelY. SHIBUYA, Y. IMAZAWA, and K. KUWANA... 532
- A System for Continuous Measurement of Concentration of Nitrate Ion in Pickling Waste Water.....R. MATSUMOTO, N. YAMAGUCHI, and A. ONO... 539

Technical Reports

- Effect of the Kind of Iron Oxide in Reduced Iron Pellets on the Melting Rate into Iron MeltA. SATO, R. NAKAGAWA, S. YOSHIMATSU, A. FUKUZAWA, and T. OZAKI... 545
- Some Studies on the Determination of Trace Amounts of Carbon in Steel..... S. HARIMAYA and T. OKANO... 552

Technical Topics

- New Method for Cold-rolling the Step-sectioned StripH. Fukuda... 558
- Study on the Welding of 9%Ni SteelT. NISHI... 565

Letters

- On the Old Ironmaking Technology in Japan.....K. IIDA... 573

Letter from Overseas

- Qatar TodayS. MITSUSIMA... 578

Report

- ISIJ's Patent and Its Patent Management on Nuclear Steelmaking.....S. NAKAMURA... 580
- Report of ISIJ Mission Visiting to China..... 582

-
- Abstracts 596,
- Notice to Members.....N117, Proceedings of the InstituteN131,
-

Overseas membership : Annual charge: ¥6000 (incl. postage), Initiation fee ; ¥ 600
