

"Tetsu-to-Hagané"

Vol. 50, No. 6 June, 1964

Contents

Foreword

Memories of Summer time in my life *Rūgi TAWARA*...871

Technical Papers

- On the Rate of Decarburization of Molten Iron with
H₂O-Ar Atmosphere.
(Studies on the kinetics of gas-molten iron reactions—II)
..... *K. Ito and K. SANO*...873
- On Hydrogen Equilibria in the System Water Vapour-Molten
Slag-Molten Iron *M. IMAI, H. OOI, and T. EMI*...878
- Consideration of the Equilibrium between Silicon and
Oxygen in the Liquid 18-8 Stainless Steel.
..... *Y. KOJIMA and K. SANO*...888
- Influence of the Ingot-Making Condition on Segregation of S and
Mechanism of High Segregation in Rimmed Steel Slab Ingots.
(Study on segregation in large rimmed steel slab ingots—II)
..... *K. MORINAGA, K. KITAGAWA, S. SATŌ, S. IZUMI and A. HOSINO*...894
- Nonmetallic Inclusion in Fe-Mn-O System and Fe-Cr-O System.
..... *K. SEGAWA, S. WATANABE, T. FUKUYAMA and H. HARAGUCHI*...904
- Behavior of Niobium Carbides and Nitrides in Steel.
(Fundamental study on niobium-added steel—I)
..... *T. MORI, K. FUJITA, M. TOKIZANE and K. YAMAGUCHI*...911
- Effects of Ti and Nb Additions on Structures and Properties
of Cr-Ni Stainless Steels. *Y. OTOGURO, Y. KAWABE and R. NAKAGAWA*...918
- On the Condensed Film on the Inner Wall of the Apparatus
for Vacuum Fusion Gas Analysis.
(Studies on the analysis of gases in steels by the vacuum fusion method—II)
..... *T. KOIZUMI, F. TSUGANE and M. KAMAKURA*...925

Special Lecture

- On the Technical Development of Pelletizing and the Utilization
of Pellet for Blast Furnace Practice. *Yasubumi DOI*...934

Report of Joint Research Society, The Iron and Steel Institute of Japan

- Developement of Ingot Mold in Recent Years. *Eiro IWAMURA*...943
- The Development of the Heat Economy in Iron and Steel
Industry Last 10 Years.
..... *Ichiro FUJIMOTO and Kazuhiko KUWAHATA*...962

-
- Abstracts 973, Contents of the Recent Articles Published in Japan and
Overseas 976, Patent Section 979, Miscellaneous:—News 983,
Proceedings of the Institute 985, Notices to Members N47
-