

“Tetsu-to-Hagané”

Vol. 48, No. 2, Feb. 1962

Contents

Foreword

On Expansion and Invigoration of the Iron and Steel Institute of Japan.
..... *Shinji* TAWARA...103

Technical Papers

Studies on Contamination of Thermocouples Used for
Continuous Temperature Measurement of Steel Bath.
(On the continuous immersion pyrometry of molten steel—I)
..... S. ONODERA, Y. ARAKIDA and N. HIRAOKA...105

On Dissolution of Water Vapour in Molten Slags.
..... M. IMAI, H. OOI and T. EMI...111

Deoxidation and Inclusions in Semi-Killed Steel Ingots.
(Studies on semi-killed steel ingots—III)
..... T. KATO, J. IMAI and H. KAJIOKA...117

On the Manufacture of High-Chromium Steels in High-Pressure
Nitrogen Atmosphere and the Heat-Resisting Properties of Type
316L Steels. M. OKAMOTO, R. TANAKA, R. FUJIMOTO and T. NAITŌ...123

Metallurgical Investigation into Ancient Iron Wares.
..... K. HORIKAWA and Y. UMEZAWA...134

Effects of Alloying Elements on Temperability and
Mechanical Properties of Low-Alloy Structural Steel (SNCM 8).
(Study of low-alloy structural steel—I)
..... M. NISHIHARA, T. NAKANO, M. MAKIOKA and T. GOTŌ...143

Effects of Solution Treatment on High-Temperature
Properties of 18Cr-8Ni-Ti Steel. K. ONO, T. NEMOTO and R. SASAKI...143

Technical Review

Applications of Internal Friction to Studies of Iron
and Steels. *Kōichi* AOKI, *Shōzō* SEKINO and *Toshiyuki* FUJISHIMA...156

Abstracts.....177, Contents of the Recent Articles Published in Japan
and Overseas.....183, Miscellaneous:—News.....185, Proceedings of the
Institute.....187, Program for the 63rd Grand Lecture Meeting of the
Iron and Steel Institute of Japan.....85, Notices to Members.....N3

Overseas membership: Annual charge: \$ 8.00 (incl. postage) Entry fee: \$ 1.00