

"Tetsu-to-Hagané"

Vol. 66, No. 14, December, 1980

Contents

Foreword

- A Desire through the Window of University..... M. INOUYE...2021

Technical Papers

- Decomposition of Sodium Carbonate and Its Mixture with Silica by
Heating and Carbon-Reduction Y. NAKAMURA, K. HARASHIMA, Y. HUKUDA, N. TOKUMITSU, and S. YAMAMOTO...2023
The Standard Free Energies of Dissolution of Phosphorus Gases in
Liquid Iron M. YAMAMOTO, K. YAMADA, L. L. MESHKOV, and E. KATO...2032
Shape Control Mechanism of Nonmetallic Inclusions in Steel by
Calcium Treatment T. IKEDA, N. FUJINO, and H. ICHIHASHI...2040
Separate Recovery of Iron and Phosphorus from BOF Slags by Using
Fe-Si Alloys S. TAKEUCHI, N. SANO, and Y. MATSUSHITA...2050
Effects of Strain-aging and Welding on Embrittlement of Cold-worked
Structural Steel Plates J. KUDOH and M. TANAKA...2058
Development of A New Test Method for Chloride Stress Corrosion Cracking of
Stainless Steels and Its Application to That of Type 316 in Dilute
NaCl Solutions S. TSUJIKAWA, K. TAMAKI, and Y. HISAMATSU...2067
Fluorescent X-ray Analysis of Iron Content in Iron Ores by Glass Bead Technique
..... N. FUJINO, Y. MATSUMOTO, T. OCHIAI, M. YAMAJI, and H. TANI...2077
On the Effect of Combined Water on Iron Content Determination in
Fluorescent X-ray Analysis of Iron Ores by Glass Bead Technique and on
SiO₂, CaO Content Determination N. FUJINO, Y. MATSUMOTO, T. OCHIAI, M. YAMAJI, and H. TANI...2086

Technical Reports

- Dephosphorization of High Carbon Ferrochromium Particle by Na₂CO₃,
Na₂SO₄ and K₂CO₃ Fluxes K. KANEKO, N. SANO, H. ONODA, and Y. MATSUSHITA...2095
Reduction and Dephosphorization of Molten Iron-oxide with Hydrogen-
Argon Plasma Y. NAKAMURA, M. ITO, and H. ISHIKAWA...2100

Technical Review

- Creep and Fatigue at Elevated Temperature R. OHTANI...2106

Report of the Joint Research Society of ISIJ

- Fundamental Study on Isolation and Determination of Carbide in Steels K. NARITA...2119

Letter

- Writing Style of Scientific Papers Y. MATSUMOTO...2139

Letter from Overseas

- My Impressions of Archen, Germany M. AMATATSU...2141

Letter to the Editor

- See and Hear of Ten Steel Plants, Universities and Research Laboratories of
People's Republic of China C. ASADA, R. TANAKA, and N. YUKAWA...2143

- Report of Poster Session of ISIJ Meeting.....2148, Abstracts 2149,
JISTIC News 2155, Notice to Members N323,
Proceeding of the Institute N333, Index the end of the book

© COPYRIGHT 1980 BY THE IRON AND STEEL INSTITUTE OF JAPAN.
ALL RIGHTS RESERVED.

This publication, or any part thereof, may not be reproduced in any form
without the written permission of the ISIJ.