

"Tetsu-to-Hagané"

Vol. 66 No. 2, February, 1980

Contents

Technical Papers

- Density and Surface Tension of CaF_2 -based Binary Melts
.....K. OGINO, H. SHIBAIKE, and S. HARA... 169
- The Effect of Selenium and Tellurium on the Surface Tension of Molten Iron and Wettability of Solid OxideK. OGINO, K. NOGI, and O. YAMASE... 179
- Interdiffusion in Molten Fe-C Alloy...Y. WANIBE, S. TAKAI, T. KOJIMA, and H. SAKAO... 186
- Interdiffusion in Molten Fe-C-Si and Fe-C-Mn Alloys
.....Y. WANIBE, N. KAWASHIMA, T. FUJISAWA, and H. SAKAO... 194
- Effect of Hot Rolling Conditions on Annihilation of Porosities in Continuous Casting Slabs
..... N. OKUMURA, T. KUBOTA, T. MARUYAMA, and M. NAGUMO... 201
- Development of Hollow Ingot for Large Forging
..... Y. IIDA, T. YAMAMOTO, S. YAMAURA, K. ASOH, J. MATSUNO, and T. NISHIOKA... 211
- Factors Affecting Necking Elongation of Steel Sheets
.....S. MIZUNUMA, S. YAMAGUCHI, M. ABE, and S. HAYAMI... 221
- Effects of the Structures to Impact Properties for High Carbon Steel
..... T. SATO and K. TOMOMOTO... 231
- Effects of Microstructure on the Fatigue Property of High Carbon SteelT. SATO and K. TOMOMOTO... 239
- Shape Change of Sulphide Inclusions during Hot Bar Forging and Cold Wire Drawing and Its Influence on Mechanical Properties of High Carbon SteelsK. KANEKO, T. INOUE, H. TAKADA, and S. KINOSHITA... 244
- Improvement in Impact Properties of 80 kg/mm² Grade High Tensile Strength Steel PlateS. WATANABE, H. OHTANI, K. SAKAI, and H. UCHIMURA... 253
- Development of the Cr^{6+} and Cr^{3+} Continuous Analyzer for the Process Control of the Chromate Treating Solution
.....Y. INOKUMA, T. OCHIAI, J. ENDO, and M. NISHIHARA... 263

Technical Review

- The Present Situation and Recent Development of Chemical Analysis Technology in Iron WorksY. ENDO... 271

Special Lecture

- Damascus Steel Rediscovered?
.....O. D. SHERBY (Translated by T. SUZUKI) ... 282

Letters to the Editor

- Nitrogen Content in Blast Furnace Coke Sampled from Tuyere
..... Y. MIURA, H. HARAGUCHI, and T. NISHI... 293
- Current Topics on the International Standardization of Screw Threads and Fasteners.....I. YOSHIMOTO...295

-
- Abstracts 297,
Notice to Members.....N19, Proceedings of the InstituteN29,
News of Iron and Steel Standard Samples...N32
-

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