

"Tetsu-to-Hagané" Vol. 72 No. 16, December, 1986

Contents

Forword

Setting up the Ad hoc Committee for Reviewing the Institute's Activities..... J. SHIRAMATSU...2151

Technical Reviews

- Investigations in Innovative Steelmaking Technologies in Japan—Focused to the
Metallurgical Phenomena Stimulating the Developments of More High-purity Refining of
Steel and Continuation of Steelmaking Processes— K. KAWAKAMI...2153
- The Present Status of Chemical Analysis for Microamounts of
Impurities in Iron and Steel..... S. HARIMAYA...2169

Commentaries

- Fundamental Concept of Metallic Solidification and Its Application..... T. TAKAHASHI...2176
- Dynamic Fracture Toughness and Its Measurement..... Y. NAKANO...2187

Technical Paper and Technical Reports

- Flow Characteristics of Gas and Fine Particles in a Two-dimensional Space of
Packed Bed H. YAMAOKA...2194
- Simulation of Burdens in Blast Furnace Using On-line Mathematical Simulator
..... K. ISHII, Y. KASHIWAYA, H. YAMAGUTI and S. KONDO...2202
- Solubility and Dissolution Rate of Water Vapor in Liquid
CaO-SiO₂-MgO and CaO-SiO₂-TiO₂ Slags..... S. BAN-YA, Y. IGUCHI and S. YAMAMOTO...2210
- Process Development and Stability Analysis of Horizontal Electromagnetic
Casting Method S. ASAI, T. KOZUKA and I. MUCHI...2218
- Prevention of Inner Cracks by the Optimum Roller Arrangements in a
High Speed Continuous Slab Caster..... K. ONISHI, K. NAGAI and T. HASHIMOTO...2225
- Operation High Speed Slab Caster for Hot Direct Rolling
..... T. KOYANO, Y. SHIRATANI, S. UCHIDA, T. WADA and T. MASAOKA...2233
- Characteristics of Rapidly Solidified Cast Iron and High Carbon Steel
..... G. YOSHIDA, K. TANIGUCHI, T. NAKAGAWA, M. SUDO and T. NOZAKI...2240
- Development of Camber Control Technique in Plate Rolling
..... K. OHMORI, M. INOUE, T. MIYAKE, Y. TANAKA and K. NISHIZAKI...2248
- Effects of Pre-hipping and Other Extrusion Conditions in Gatorizing Process
..... S. NAKAZAWA, I. TOMIZUKA, Y. KOIZUMI, H. HARADA and M. YAMAZAKI...2256
- Effects of the Conditions of Direct Hot Rolling after Continuous Casting upon the
Mechanical Properties of Hot Rolled C-Mn-Nb Steel Sheets Y. HASHIMOTO...2263
- Prevention of Hydrogen Induced Disbonding at the Interface between Cr-Mo Steel and
Stainless Steel Overlay Weldment
..... K. HASHIMOTO, Y. OTOGURO, T. SAITO, H. KOIKE and K. MIYAMOTO...2271
- Influence of Nitrogen Addition to Duplex Stainless Steels..... A. HOSHINO...2279
- Development of Full Automatic Sample Preparation and Analysis
System for Powdered Sample and Pig Iron T. SUGIHARA, K. SAITO, A. GODA and T. HATA...2287

Quantitative Analysis of Zn-Fe Alloy Galvanized Layer by Secondary Ion

Mass Spectrometry K. TAKIMOTO, K. SUZUKI, K. NISHIZAKA and T. OHTSUBO...2293

Reports

Report on the 4th International Symposium on Agglomeration Y. SHIGENO...2301

Report on the 14th Biennial Congress of International Deep

Drawing Research Group..... H. HAYASHI...2303

Abstracts 2305, The Editor's Postscript 2308

Column 2308, Notice to Members N255

編 集 委 員 会

委 員 長 坂尾 弘

編集運営委員会

浅野 鋼一	荒木 透	一瀬 英爾	大谷 正康	小野 陽一
加藤 栄一	金尾 正雄	川上 公成	菊池 実	岸 輝雄
小指 軍夫	権藤 永	佐々木 徹	雀部 実	寺崎 富久長
原 富啓	細井 祐三	榎本 弘毅	松尾 宗次	松下 幸雄
森 隆資	渡辺 敏			

和文会誌分科会

主査 坂尾 弘	幹事 菊池 実		
委員 浅井 滋生	浅野 鋼一	阿部 英夫	綾田 研三
稻葉 晉一	乾 恒夫	梅田 高照	大河内 春乃
大坪 孝至	大矢 清	尾関 昭矢	勝亦 正昭
川崎 守夫	河部 義邦	木内 学	岸 輝雄
坂木 康晃	坂本 登	雀部 実	佐藤 駿
下村 隆良	神馬 敬	瀬野 英夫	政司 千晃
中村 正和	野崎 努	福武 剛	志賀 直樹
溝口 庄三	宮崎 亨	三吉 康彦	辻川 茂男
八木順一郎	山口 正治	渡辺 征一	本間 亮介
			門馬 義雄

© COPYRIGHT 1986 社団法人 日本鉄鋼協会

本書に掲載されている記事の無断転載ならびに無断コピーを禁じます。

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