

**Contents**

**Foreword**

Introduction of New Field to Journal, Transactions, and Annual Meeting of ISIJ .....*O. MIYAGAWA*...2177

**Technical Review**

Carbon Equivalent, Maximum Hardness and Cracking in Welding Steel .....*H. SUZUKI*...2179

**Commentaries**

Acoustic Emission Source Characterization and Its Application to the Study of Dynamic Micro-cracking.....*T. OHIRA* and *T. KISHI*...2188  
Present Status of Stainless Steel Sheet for Railway Rolling Stock .....*M. OGAYA*...2196  
Standard Test Method for Threshold Stress Intensity Factor  $K_{ISCC}$  in Stress Corrosion Cracking (JSPS 129 Committee Recommendation)  
.....*T. AOKI* and *T. IWADATE*...2204

**Technical Papers and Technical Reports**

Study of Primary Melt Formation and Transition Mechanism to Final Slag of Sintered Ore .....*I. SHIGAKI*, *M. SAWADA*, *O. TSUCHIYA*, *K. YOSHIOKA* and *T. TAKAHASHI*...2208  
Studies on Some Aspects of Deterioration of Coke in Blast Furnace  
.....*H. HARAGUCHI*, *T. NISHI*, *Y. MIURA*, *M. USHIKUBO* and *T. NODA*...2216  
Flow of Iron in Blast Furnace Hearth  
.....*M. TACHIMORI*, *J. OHNO*, *M. NAKAMURA* and *Y. HARA*...2224  
The Reducing Dephosphorization of Molten Stainless Steel and Slag Treatment.....*T. ARATO*, *T. UCHIDA* and *Y. OMORI*...2232  
Practical Shape Meter for Hot Strip Mill.....*S. KAWASHIMA*, *S. TSURUTANI*,  
*K. HIRATA*, *E. TANAKA*, *T. HORIUCHI* and *K. TSUJI*...2239  
Experimental Determination of Isothermal Section in a Ni-Cr-W Ternary System at 1000°C  
.....*M. KIKUCHI*, *M. KAJIHARA*, *Y. KADOYA*, *S. TAKEDA* and *R. TANAKA*...2246  
Effects of Heat Treatment and Chemical Composition on Intergranular Embrittlement Phenomena in Ultra-low-carbon Low-alloy Steels  
.....*M. NIKURA*, *S. YAMAMOTO*, *C. OUCHI* and *I. KOZASU*...2254  
Prevention of the Intergranular Fracture in Iron-Phosphorus Alloys by Carbon.....*S. SUZUKI*, *M. OBATA*, *K. ABIKO* and *H. KIMURA*...2262  
Damping Capacity of Composite Sheets Made by Superplastic Rolling/  
Joining Technique of Steel-Superplastic Alloy  
.....*A. AZUSHIMA*, *T. MIURA* and *M. MIYAGAWA*...2269  
Design of a Composite Damping Sheet Made by Superplastic Rolling/  
Joining Technique of Steel-Superplastic Alloy.....*A. AZUSHIMA* and *M. MIYAGAWA*...2276  
Development of Covered Arc-welding Electrode for Austenitic Heat-resisting Steel (0.1C-2Si-24Cr-13Ni-0.8Mo-0.25N) .....*R. FUJIMOTO* and *S. MIZOGUCHI*...2282  
Infrared Thickness Sensor of Paint Film.....*S. HAMADA*, *K. AWAI*, *K. YAMAMOTO* and *M. HIRATA*...2289

The Development of "Macro Analyzer" and Its Application to Steel Analysis  
 ..... K. KITAMURA, K. KAWASHIMA, H. SOGA, H. OGAWA,  
 T. SAEKI, M. SATO and J. KANEKO...2294

Aging of Powdered Sample and Its Influence on Free Nitrogen Analysis  
 by Constant Temperature-Hydrogen Hot Extraction Method  
 ..... Y. TAKIZAWA, T. HATA and Y. ENDO...2301

**Discussions**

Surface Tension of Molten Fe-O-S Alloy (Vol. 69 pp. 1989~1994) .....2305

**Letters**

On Hot Stability and Its Criteria .....M. TATE...2307  
 Speed up of Rolling Stock.....S. TANAKA...2309

**Report**

.....2318

Abstracts.....2313, Notice to Members .....N207  
 Columns.....2292, 2306, 2324, 2325, 2326, Proceedings to the Institute .....N219  
 The Editor's Postscript .....2326

**編 集 委 員 会**

**委 員 長** 宮川 大海  
**編集運営委員会**  
 荒木 透 大橋 延夫 大森 康男 加藤 健三 金尾 正雄  
 川合 保治 川上 公成 菊池 実 小指 軍夫 佐野 信雄  
 鈴木 朝夫 高石 昭吾 寺崎 富久長 松尾 宗次 松下 幸雄  
 森田善一郎 湯河 透 渡辺 敏

**和文会誌分科会**

**主 査** 宮川 大海 **幹事** 菊池 実 市田 敏郎  
**委 員** 赤須 英夫 朝野 秀次郎 姉崎 正治 荒木 健治 市田 敏郎  
 一伊達 稔 稻葉 晋一 梅田 高照 大宝 雄蔵 大谷 泰夫  
 大坪 孝至 勝亦 正昭 金尾 正雄 鎌田 正誠 川上 公成  
 岸 輝雄 齋藤 好弘 佐々木 徹 佐々木 稔 雀部 実  
 神馬 敬 菅 輝夫 鈴木 朝夫 辻川 茂男 徳田 昌則  
 垣生 泰弘 原 富啓 広瀬 圭介 福武 剛 古林 英一  
 星野 和夫 本間 亮介 松田 福久 松村 泰治 溝口 庄三  
 望月 俊男 森 隆資 森田善一郎 山口 正治 吉越 英之

© COPYRIGHT 1984 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.