

Contents

Fundamentals of High Temperature Processes

- Effect of Steel Compositions on Wettability between Steel Melt and Oxide Plates
T. SUZUKI and T. KOSEKI411

Ironmaking

- Effect of Inlet Gas Composition on Dioxins Emission in the Iron Ore Sintering Process
M. MATSUMURA, T. KAWAGUCHI and E. KASAI417

Casting and Solidification

- Apparent Growth Direction of Primary Dendrites in Chill Zone
H. ESAKA, Y. KURODA, K. SHINOZUKA and M. TAMURA427
- Grain Selection during Initial Solidification for SUS304 and S45C
Y. KURODA, H. ESAKA, K. SHINOZUKA and M. TAMURA432
- The Improvement of Surface Cracks on Lead Free-cutting Steel Bloom
Y. OHBA, I. TAKASU, S. KITADE and H. SHIMOGUCHI439

Chemical and Physical Analysis

- Precise Estimation of Emission Intensity of Alloyed Elements in Steel by Using Internal Standard Line
in Glow Discharge Optical Emission Spectrometry (Technical Report)
H. PARK and K. WAGATSUMA464

Transformations and Microstructures

- Effect of Nb(CN) Precipitation Conditions on Abnormal Grain Growth in Nb Added Steels
T. MURAKAMI, H. HATANO and H. YAGUCHI448

Mechanical Properties

- Effects of the Grain Size and Volume Fraction of Second Hard Phase on Mechanical Properties
of Dual Phase Steel
D. KONDO, K. KUNISHIGE and R. UEJI457

-
- ISIJ International, Vol.46 (2006), No.7, Synopses and TitlesA22
-