

Contents

Fundamentals of High Temperature Processes

Effects of Liquid Flow on Gas-Liquid Mass Transfer

T. KUMAGAI and M. IGUCHI159

Casting and Solidification

Basic Study on Flow Behavior of Molten Steel in a Continuous Casting Machine in the Presence of Static Magnetic Field Parallel to the Slab Width Direction

M. MORISHITA, M. KOGITA, T. NAKAOKA and T. MIYAKE167

Surface Treatment and Corrosion

Development of Amorphous Layer of Biaxially Oriented Polyester Film on Laminated Steel in the Laminating Process/*H. IWASHITA, S. MORITA and A. TANAKA*175

Transformations and Microstructures

Texture Formation of Very Thin TiN, TiCN and TiC Films on Single Crystal of Silicon Steel at Incipient Stage during Plasma Coating/*Y. INOKUTI*183

Mechanical Properties

Influence of Hardness and Carbon Content on Rolling Contact Wear in Pearlitic Steels

M. UEDA, K. UCHINO and T. SENUMA190

Measurement and Analysis of Plastic Deformation Characteristics of Sheet Steels Using

Biaxial Tensile Test/*T. KUWABARA, S. YAMADA, E. IZUKA and T. HIRA*198

ISIJ International, Vol.41 (2001), No.4, Synopses and TitlesA10
