

Contents

Chemical and Physical Analysis

Circumstances of Environmental Analysis in Steel Industry (Review)

Y. ISHIBASHI785

Forming Processing and Thermomechanical Treatment

Numerical Analysis of Plastic Strain Distribution through Multi-directional Deformation

T. INOUE, S. TORIZUKA and K. NAGAI793

Uniform Formation of Fine Grained Ferrite Structure through Multi-directional Deformation

S. TORIZUKA, T. INOUE and K. NAGAI801

Transformations and Microstructures

Shape, Size and Crystallographic Orientation of the Ferrite Grains Formed at Grain Boundaries of

Deformed Austenite in a Low Carbon Steel/S. TORIZUKA, O. UMEZAWA, K. TSUZAKI and K. NAGAI807

Strength Analysis of a Ferrite+Bainite Steel by AFM Ultra-micro Hardness Tester

N. NAGASHIMA, K. MIYAHARA, S. MATSUOKA, K. TSUZAKI, T. HARA and T. TAKAHASHI815

Influence of Hot Rolling Temperature and Reduction on Mechanical Properties of Ti-bearing Extra Low

Carbon Hot-rolled Steel Sheets/T. NAKAMURA and K. ESAKA822

Mechanical Properties

Effect of Hardness Distribution on Propagation Behavior of Torsional Fatigue Crack of Induction

Hardened Steels for Automotive Shafts/T. OCHI, H. KANISAWA and T. WATANABE830

Social and Environmental Engineering

A Quantitative Macro Model of Steel Scrap Recycling Considering Copper Contamination for

the Sustainable Society/K. KAKULATE, Y. ADACHI and T. SUZUKI837

ISIJ International, Vol.40 (2000), No.12, Synopses and TitlesA30

Instructions for AuthorsA33

Tetsu-to-Hagané IndexA37
