

"Tetsu-to-Hagané"

Vol.82 No.1, January, 1996

Contents

Review	A Study on the New Iron Ore Smelting Reduction Processes /K. FUKUI.....	1
	Engulfment and Pushing of Foreign Particles Such As Inclusions and Bubbles at Solidifying Interface K. MUKAI	8
	A New Approach to Materials Design and Development for Advanced Materials : Interfacial Architecture in Material Systems /T. WATANABE	15
Paper	Mechanism of the Non-uniform Sintering on Using a Low-Al_2O_3 Pisolite Ore T. MATSUMURA, K. MORIOKA, M. SHIMIZU, T. NODA and T. MATSUO	23
	Experimental and Numerical Analysis on the Movement and the Accumulation of Powder in the Deadman and the Dripping Zone of Blast Furnace /T. SUGIYAMA	29
	Estimation of the Formed Position of the Surface Cracks on the Slab in the Continuous Caster A. KUSANO, H. MISUMI and S. HARADA	35
	Slurry Wear Test Using Galvanic Cells /Y. IWABUCHI.....	41
	Determination of Nitrogen in Steel by Spark Emission Spectrometry K. CHIBA, M. YAMAJI, T. WATANABE, K. HIROKAWA, A. AKIMOTO, A. MORI, Y. YAMAMOTO, S. SATO, O. KATAOKA, T. NUMATA, Y. OKA, T. OISHI, S. NAKAYAMA, A. HONJI and I. FUKUI	47
	Development of On-line Analysis Method for Determination of Chromium in Molten Stainless Steel in LD Converter /R. TSUJINO, K. MIYAMOTO, T. ITO, T. YUKI, K. KATO, A. SHINKAI and K. CHIBA	53
	Improvement of Seam-defects on Strip Edge of Stainless Steel H. YAMAGUCHI, Y. KUSABA and T. YAMADA	58
	Effect of Small Amount of Ni on Hydranlic-descaling-ability in Si-added Hot-rolled Steel Sheets T. FUKAGAWA, H. OKADA, Y. MAEHARA and H. FUJIKAWA	63
	Change in Microstructure of Zn-Co-Cr-Al_2O_3 Composite Coating by Cyclic Corrosion Test C. MAEDA, T. MEGA, J. SHIMOMURA and S. KUROKAWA.....	69
	Reaction Diffusion between Iron and Pb-Zn Melt at 733 to 818K Y. WAKAMATSU, H. MASUMOTO, M. YAMANE, M. ONISHI and T. SHIMOZAKI	75
	The Rules of Mixture on Physical Properties of Composite Materials with Network Structure T. MAKINO and M. YAMAMOTO	81
	Effect of Ni Content on High Temperature Properties of 9Cr-7Mo Steel Strengthened by Precipitation of Intermetallics /H. UCHIDA and M. FUJIWARA	87
	Influence of Interparticle-spacing on Creep Rate in a 2.25Cr-1Mo Steel T. SUMIDA, T. IKUNO and T. SABURI.....	91
	ISIJ International, Vol.36 (1996), No.1, Synopsis and Titles	A1
