

CONTENTS

	Page
Effective Valencies of Liquid 3d Transition Metals Estimated from the Gibbs-Bogoliubov Variational Method Using the One-Component Plasma Reference System T. Arai, S. Naito and I. Yokoyama	117
Modelling and Analysis of the MOCVD Process V.A.C. Haanappel, H.D. van Corbach, T. Fransen and P.I. Gellings	127
Absorption Coefficient of Continuous Casting Powder for Steel H. Ohta, K. Watanabe, K. Nakajima and Y. Waseda	139
An Evaluation of the Stabilities of the Ternary Compounds at Low Oxygen Potentials in the Ternary System Fe-Na-O S. Seetharaman and Du Sichen	145
Formation of Cr-Ti Composite Layers on Steel by Using the Pack Diffusion Process in Air Y. Shibuya and Y. Sumiya	155
Feasibility Study for Chemical Analysis by X-ray Spectrometer Using the Fundamental Parameter Method K. Sugiyama, Y. Waseda and J.W. Essel	167
High Temperature Calorimetric Investigation of BaB_2O_4 S. Takeda and S. Kimura	175