

## TABLE OF CONTENTS 目 录

### Research Status and Progress of Electrothermal Field Simulation of Aluminum Electrolysis Cell (铝电解槽电热场仿真的研究现状与进展)

S. HAN, M. R. WEI, W. W. WANG, Q. D. SUN, X. J. LV.....163

### Study on the Optimal Batching Scheme for Deoxidation Alloying (脱氧合金化最优配料方案研究)

C. L. LI, Z. L. TANG, Y. R. MA, J. C. CHANG.....170

### Spectrophotometric Analysis of Iron Content in Manganese Ore (分光光度法对锰矿中铁含量分析的研究)

S. L. YU, S. B. HUANG, N. WU, C. B. LI, Z. W. MENG, J. M. ZENG.....180

### Domestic Verification of Subhigh Speed Burner with High Energy Efficiency and Low Emission (高能效低排放亚高速烧嘴的国产化验证)

Q. SHEN, G. J. LI, Z. B. SUN.....185

### Study on NO<sub>x</sub> Emission from Pulse Flame-Adjusting Burner at Different Power (脉冲调焰烧嘴不同功率下 NO<sub>x</sub> 排放研究)

Q. SHEN, M. L. DENG, G. J. LI.....196

### Inclusions in Cord Steel and Purification of Molten Steel (帘线钢的夹杂物及钢水净化)

Q. LI, K. ZHU, X. H. QIAN, X. D. LI, J. M. ZENG.....204

### Research on Current Industry Synergy Disposal and Utilization of Hazardous Waste (当前产业协同处置利用危废技术的进展研究)

H. B. LIU, J. JIA, Z. ZHANG, Y. ZHENG, Q. ZHOU.....210

### Optimal Management and Improvement of Smoke Exhaust System in Flash Furnace (闪速炉排烟系统优化管理与改进)

Z. Z. XIA, P. LONG.....218

### Research on Foamed Ceramics Prepared Respectively from Steel Slag and Red Mud (分别利用钢渣和赤泥制备发泡陶瓷的研究)

W. Q. FANG, Y. LI, S. T. XU.....223

### Prediction of Yield Based on BP Neural Network and Fitting (基于 BP 神经网络和拟合对收得率的预测)

Y. Q. HAN, C. L. LI, H. T. WANG.....232

**Analysis of the Influence Factors of LF Furnace Silicon Reversion in Low Carbon Steel Treatment  
(低碳钢 LF 炉硅还原影响因素分析)**

K. M. LUO, S. C. JING, Z. B. HE..... 240

**Effect of Hot Deformation Temperature on the Microstructure of a Ni-35Co Alloy  
(热压缩温度对 Ni-35Co 合金组织的影响)**

X. Y. SUN, L. F. ZHANG, L. JIANG, L. JIANG..... 246

**Research Progress of Cord Steel Production Technology**

**(帘线钢生产工艺的研究进展)**

Q. LI, K. ZHU, X. H. QIAN, X. D. LI, N. WU, Z. W. MENG, J. M. ZENG..... 251