Author Index

A Competitive View of Tomorrow's Carbon Flat Rolled Steel Making Environment From a Mini-Mill Perspective p. 3

IPSCO - A Plate Mini-Mill p. 7

Combining Technologies: The Best of Both Worlds? p. 11

Advantages of Oxy-Fuel Combustion Technology: Healing 400 Ton Ladles at Northwestern Steel and Wire p. 17

Non-Radioactive Methods for Detecting Mold Level p. 19

Plasma Tundish Heating at Nucor Norfolk - Design Considerations and Operating Results p. 23

A New Ladle Slag Sensor System for the Caster: Early Warning, Detection, and Shut-Off p. 33

The Pursuit of Steel Billet Quality p. 37

A Steel Composition Model for Continuous Slab Casting during a Grade Transition p. 49

Update on Radioactive Detection Systems p. 61

Production and Use of Direct Reduced Iron at Georgetown Steel Corporation p. 67

The FASTMET Process - Direct Reduction Technology for Modern Steelmaking p. 75

An Overview of Global Scrap Markets and the Role of Iron Based Scrap Substitutes p. 83

The Impending Metallics Problem: Can It Be "Ironed Out"? p. 89

VAI Electric Steelmaking Technology - State-of-the-Art Solutions for Cost-Effective Steel Production p. 97

Radioactive Save - Lukens Steel p. 105

Properties of Arcs in DC Furnaces p. 111

Operating Results of AMI SmartArc at SMI-Texas p. 121

Operational Results of a Double Shaft Furnace at SAM Montereau France (Usinor Sacilor) p. 127

Recent Developments in Post Combustion Technology at Nucor Plymouth p. 135

The DANARC Technology p. 139

Injection Systems for Electric Arc Furnaces p. 149


Environmental Risk Management: Compliance Auditing as an Effective Environmental Management Tool p. 165

Federal and State Requirements for Handling Radioactive Scrap Problems p. 169


The Formation and Suppression of EAF Dust p. 179

Microwave Processing of Electric Arc Furnace Dust p. 187

Optimal Control of Electric Arc Furnace as Marcov's Process p. 199

The State of the Arc in Electric Furnaces p. 211

Effective Melting of Rebar Steel in Coreless Induction Furnaces p. 215

Ladle Flux Practices for Plain Carbon AK Steels p. 221

A Standing Portable Unit Which Can Be Used to Separate Metal From Slag p. 233

Furnace Slide Gate System and Refractories - Electric Furnace Slag Free Tapping p. 235

Quality and Operational Advances With Auxiliary Stir and Ladle Refining at Newport Steel p. 241