Who Was Henry Howe? p. 3
Western Canadian Coking Coals - Thermal Rheology and Coking Quality p. 37
Cokemaking From Coals of Kuzbas and Donbas p. 45
Cyanide Treatment Options in Coke Plants p. 53
Baldwin Thermal Treatment Facility, Baldwin, Illinois - Organics and Contaminated Soils p. 65
Analysis of Ammonium Sulfate Circulation Tank Failure - Possible Causes and Their Remediation p. 69
Automated Control for Coal Handling Operations at Bethlehem Steel, Burns Harbor Division p. 73
Experience and Results of New Heating Control System of Coke Oven Batteries at Rautaruukki OY Raasepori Steel p. 79
Gas Treatment and By-Products Recovery of Thailand's First Coke Plant p. 85
Coke Cake Behavior Under Compressive Forces p. 91
Simulation of Industrial Coking - Phase 1 p. 97
A Mathematical Model for the Estimation of Flue Temperature in a Coke Oven p. 107
A Coke Oven Model Including Thermal Decomposition Kinetics of Tar p. 115
The Videofil Probe, a Novel Instrument to Extend the Coke Oven Service Life p. 123
Glass-Coating and Cleaning System to Prevent Carbon Deposition on Coke Oven Walls p. 127
Model Based Control of a Coke Battery p. 131
Operation of Dry-Cleaned and Agglomerated Precompaction System (DAPS) p. 139
Up-Grade of Process Control System - U.S. Steel Fairfield No. 8 Blast Furnace p. 145
Recent Improvements in Cashtouse Practices at the Kwangyang Blast Furnaces p. 155
Altos Hornos de Mexico Blast Furnace No. 5 Certification in ISO-9002 Standard p. 163
Increasing Blast Furnace Productivity - Is There a Universal Solution for all Blast Furnaces? p. 171
Hoogovens Blast Furnace No. 6 - The First Eleven Years of a Continuing Campaign p. 179
Blast Furnace Supervision and Control System p. 189
Low-Coke Rate Operation Under High PCI at Kobe No. 3 BF p. 203
Blast Furnace Injection of Low Volatile Coal at Bethlehem Steel's Burns Harbor Division p. 207
Metallurgical Applications of Upgraded Coal From the LFC Process p. 213
Consumption of Residual Char in Blast Furnace During Coal Injection - Slag/Carbon/Gas Interactions p. 217
Great Lakes Steel - PCI Facility p. 229
Rebuilding of Rautaruukki Blast Furnaces p. 247
The 2nd Campaign of Pohang No. 2 B.F. and Its Relining Plan for the 3rd Campaign p. 253
Development of Quick Repairing Technique for Ceramic Burner in Hot Stove of Blast Furnace p. 257
Hot Repair of Ceramic Burner on Hot Blast Stoves at USS/KOBE's #3 Blast Furnace p. 263
Production Improvements in SIDERAR BF #1 p. 269
Extension of Blast Furnace Campaigns at Inland Steel p. 283
Operational Results of Shaft Repair by Installing Stave Type Cooler at Kimitsu Nos. 3 and 4 Blast Furnaces p. 293
Long Life Hearth in Blast Furnace - Kokura No. 2 B.F. of Sumitomo Metals

Monitoring Lining and Hearth Conditions at Inland's No. 7 Blast Furnace

Hearth Monitoring Experiences at Dofasco's No. 4 Blast Furnace

Titanium Addition Practice, and Maintenance for the Hearths in AHMSA's Blast Furnaces

Microwave Drying of Ferric Oxide Pellets

Reducing Drying/Preheat Cycle Time to Increase Pellet Production at the BHP Whyalla Pellet Plant

Continuous Improvements in Pelletizing, The AHMSA Experience

Determination of the Fundamental Softening and Melting Characteristics of Blast Furnace Burden Materials

Successful Application of the Top-Layer-Sintering Process for Recycling of Ferrous Residuals Contaminated With Organic Substances

Process Improvements at Redcar Sinter Plant

Increasing the Proportion of Yandi Pisolite in BHP Steel Ore Blends

The Influence of Sinter Composition on Sintering Rate and Physical Quality of Sinter

Cold Bonded Briquettes With High Temperature Properties for Blast Furnace Burdens

The Recycling of Waste Oxides at Great Lakes Division, National Steel Corporation

Saldanha Steel Project - The Zero Emission Philosophy

In-Plant Recycling of Ironmaking Waste Materials at POHANG Works

Prolongation Technologies for Campaign Life of Tall Oven

Collector Main Replacement at Indianapolis Coke

Operating and Maintenance Benefits of Automated Oven Wall Temperature Measurement

Methods for Reduction of Charging Emissions

Automatic Coke Oven Heating Control System at Burns Harbor for Normal and Repair Operation

Rebuild of SSAB Oxelosund Blast Furnace No. 4 and Introducing the ROAX-TOP

Burden Distribution Tests of Siderar's No. 2 Blast Furnace

Changing From 100% Sinter Burden to 100% Pellets in Koverhar

The Formation of an Ore Free Blast Furnace Centre by Bell Charging

The Romelt Process - Prospects for Pig Iron Production in North America

A Status Report on the FASTMET Process From the Kakogawa Demonstration Plant

The Production of Iron Carbide

Technical and Economical Considerations of New DRI Melting Process

Processing High Phosphorus HBI in Steelmaking

Solidification Control versus Liquid Steel Temperature - A Review

Improving Productivity and Quality Through Control of the Steel Temperature in the Tundish

Temperature Compensation and Control in the Continuous Casting Tundish: Physical and Mathematical Modelling
Quality and Operational Benefits of Continuous Tundish Temperature Measurement at British Steel Teesside Works p. 603

CC Process Optimization Through an Improved Thermal Modeling of the Cast Steel Products p. 607

Steel Composition and Temperature Adjustment: The H ALT Process at KRUPP HOESCH - Dortmund Plant p. 617

Stratification and Emptying Flow in Ladles Before and During Casting - Creation of Simple Models from Experiments and Sophisticated Models p. 625

Improvement of Secondary Cooling Control by On-Line Temperature Calculation p. 647

Temperature Prediction and Control During Continuous Casting p. 655

Enhancing Hot Mill Slab Yield, Usage and Throughput Using Expert Systems and Numerical Optimization p. 663

A System for Interpretation of Blast Furnace Stockrod Measurements p. 673

Hydrochloric Acid Pickling of Coiled Steel Rods p. 679

Reactive Phosphide Inclusions in Commercial Ferrosilicon p. 687

Continuous Steelmaking: The Balance Between Intensity and Refining p. 695

The Effect of Deoxidation Praxis on Inclusion Characteristics in Bearing Steel Production p. 703

Control of DWI Steel Cleanness by Lanthanum Tracing of Deoxidation Inclusions, Ladle Slag Treatment and a Methodical Approach p. 711

Bubbling in a Tundish p. 719

Heat Transfer Behavior of Pure Iron and Nickel Against a Water Cooled Copper Mold During Initial Stage of Solidification p. 731

Slab Caster Design Criteria for High Quality Steel p. 743

Thermal Modeling as a Tool for Optimization and Control of Casting Processes p. 753

Author Index p. 763

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.