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Nota di contenuto	Energy Technology 2011: Carbon Dioxide and Other Greenhouse Gas Reduction Metallurgy and Waste Heat Recovery; TABLE OF CONTENTS; Foreword; Editors; Waste Heat Recovery; Session I; Waste Heat Utilization to Increase Energy Efficiency in the Metals Industry; Waste Heat Reduction and Recovery Options for Metals Industry; Development of a Direct Evaporator for the Organic Rankine Cycle; Topological Considerations for Thermoelectric Capture of Waste Heat; Waste Heat Recovery in the Aluminum Melting Furnaces Energy Efficiency Improvement by Implementation of the Novel CRIMSON Aluminium Casting Process; Waste Heat Recovery Trial from Aluminum Reduction Cell Exhaust Gases; The Study of Coal Gasification

in Molten Blast Furnace Slag; System for Recovering Waste Heat from High Temperature Molten Blast Furnace Slag; Stability and Thermoelectric Properties of Transition Metal Silicides from First Principles Calculations; Carbon Dioxide and Other Greenhouse Gas Reduction Metallurgy - 2011; Electrochemical Reduction Methods - CO₂ Use and Other Metal Production
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Life Cycle Assessment of China's Alumina Manufacturing by Bayer Process; Analysis of Carbon Emission Reduction of China's Integrated Steelworks; Fluid Mixing Characteristics in a C-H₂ Smelting Reduction Furnace Bath Combined Top, Bottom and Side Blowing Process; Author Index; Subject Index

Sommario/riassunto

Approaches on carbon dioxide (CO₂) emission reduction in metal production by improved energy efficiency in life cycle fuel use, reductions in carbonate-based flux/raw material usage, as well as finding thermodynamically feasible reactions leading to lower emissions. Energy saving techniques for extraction and processing of ferrous and nonferrous metals and other materials
Capture, conservation, and use of heat generated from processing
