

1. Record Nr.	UNINA9911004823903321
Titolo	Energy technology 2011 [[electronic resource]] : carbon dioxide and other greenhouse gas reduction metallurgy and waste heat recovery : proceedings of a symposium sponsored by the Energy Committee of the Extraction and Processing Division and the Light Metals Division of TMS (the Minerals, Metals & Materials Society) : held during the TMS 2011 Annual Meeting & Exhibition, San Diego, California, USA, February 27-March 3, 2011 / / edited by Neale R. Neelameggham ... [et al.]
Pubbl/distr/stampa	Hoboken, N.J., : John Wiley & Sons, Inc., 2011
ISBN	1-5231-0506-2 1-283-10101-7 9786613101013 1-118-06184-5 1-118-06188-8 1-118-06182-9
Edizione	[1st ed.]
Descrizione fisica	1 online resource (294 p.)
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Disciplina	600 669.0286
Soggetti	Metallurgy - Environmental aspects Heat recovery
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
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 ProcessWaste 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
Solar Thermo-Chemical Splitting of Carbon Dioxide by Metal Oxide Redox Pairs
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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
