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| 1. Record Nr. | UNINA9911006776203321 |
| Titolo | Energy technology 2013 [[electronic resource]] : carbon dioxide management and other technologies : proceedings of symposia 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 2013 Annual Meeting & Exhibition, San Antonio, Texas, USA, March 3-7, 2013 // edited by Soobhankar Pati ... [et al.] |
| Pubbl/distr/stampa | Hoboken, N.J., : Wiley, 2013 |
| ISBN | 1-5231-0508-9 1-118-65835-3 1-118-65838-8 1-299-18884-2 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (238 p.) |
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| Disciplina | 669.0286 |
| Soggetti | Carbon dioxide mitigation Carbon dioxide - Environmental aspects Power resources Metallurgy - Environmental aspects |
| 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 | Cover; Title Page; Copyright Page; TABLE OF CONTENTS; Preface; Editors; Energy Technologies and Carbon Dioxide Management; Alternative Green Processes; Thermodynamic Properties of Novel Low Melting Point LiNO ₃ - NaNO ₃ -KNO ₃ Ternary Molten Salt for Parabolic Trough Solar Power Generation; A Thermochemical Study of the W/WO ₃ System: A Solar to Fuel Converter for Syngas Production; Technical Viability of Biocoke from Mixtures Coal-Wood Charcoal for Use in Ironmaking; Supercritical CO ₂ -Corrosion of Steels in CCS Environment Designing Novel CRIMSON Running System Through Numerical Simulation Method for the Purpose of Reducing the Energy Content of Aluminium Investment Casting Infrared Radiation Properties of CuO- |

ZnO-Based Sintered Material Prepared for Energy-Saving Coating; Preparation of Modified Semi-Coke from Semi-Coke: Process Optimization; Waste Heat Recovery and Furnace Technology; Waste Heat Recovery Opportunities in a Magnesium Silicothermic Reduction Plant; Effect of Batch Charging Equipment on Glass Furnace Efficiency Thermodynamic Properties of ORC System with Zeotropic Mixed Working Fluids for Low Temperature Waste Heat Recovery The Optimization of Gases and Thermal Energy in the Upper Zone of Electric Furnaces in Drenas; Energy Education; Software for Energy Education; Overview of Industrial Energy Training and Software; A Suggestion for Establishing Energy Management Policy in Primary Aluminum Industry by Applying Strategic Management Tools; Carbon Footprint Analysis; Measuring the CO₂ Captured on Bauxite Residue Carbonation; Study on Capture, Recovery and Utilization of Carbon Dioxide Carbon Footprint and Carbon Deficit Analysis of Iron and Steel Industry from 1991 to 2010 in China The Life Cycle Assessment of Metal Materials Used for Automobile Body Materials and Castings; Magnetic Materials for Energy Applications - III; Status and Challenges; Bonded Permanent Magnets - An Overview; Anisotropic Curie Temperature Materials; Novel Materials and Phenomenon; Designing Permanent Magnet Machines for Ferrofluid Immersion; Constant Permeability of Fe-B-Si-Nb Crystal-Glassy Composite Bulk Alloy by B₂O₃ Flux Melting and Casting Materials in Clean Power Systems VIII: Durability of Materials Materials for Fuel Cells and CSP Applications; The Effect of Constituent, Interfacial Properties and Morphology on the Dielectric Response of MIEC Membranes; Author Index; Subject Index

Sommario/riassunto

This book features a collection of papers on the issues, intricacies, and challenges relating to energy and environmental science. It offers expert coverage of the various technological aspects of sustainable energy ecosystems, including processes that improve energy efficiency and reduce CO₂ and other greenhouse emissions. It also addresses the need for sustainable technologies in extractive metallurgy, materials processing, and manufacturing industries with energy efficient technologies. Some additional contributions examine renewable energy sources such as solar, wind, and biomass.
