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| | Nota di contenuto | Latest Research on Energy Recovery -- Contents -- Preface -- Section
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Heat Recovery -- Chapter1
Magnetocaloric Properties in Gd Ni and Gd CoNi Systems -- Chapter2
Micro-Thermoelectric Generators: Material Synthesis, Device
Fabrication, and Application Demonstration -- Chapter3
Perspective Chapter: Ultra-LowTemperature Chillers for Semiconductor |

Manufacturing Process -- Section 2
Nonconventional Energy Recovery -- Chapter4
Assessment of Solar Energy Potential Limits within Solids on Heating-Melting Interval -- Chapter5
The Technical Challenges of the Gasification Technologies Currently in Use and Ways of Optimizing Them: A Review -- Chapter6
Green and Sustainable Chemical Looping Plasma Process for Ammonia and Hydrogen Production -- Chapter7
Energy Efficiency Improvement in Surface Mining

Sommario/riassunto

This book, edited by Petrica Vizureanu, explores the concept of energy recovery within large industries and utilities globally. Through seven chapters, it delves into the theory and practical requirements of energy recovery, highlighting its significance in industrial applications. The text covers various topics, including heat recovery, solar energy potential, gasification technologies, and the use of chemical looping processes for sustainable ammonia and hydrogen production. It emphasizes the importance of sustainable development and energy efficiency, particularly in heavy industries reliant on fossil fuels. The book targets professionals and researchers in the energy sector, aiming to provide insights into cutting-edge technologies and methods for improving energy recovery and efficiency.
