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Nota di contenuto	1. Waveform Design for Energy Efficient OFDM Transmission -- 2. Hydrogen as a Clean Energy Source -- 3. Quantitative of Mass Transfer in Liquid-Liquid Operations of Oil-Alcohol-Glycerin Systems -- 4. Exploitation of Excess Low-Temperature Heat Sources from Cogeneration Gas Engines -- 5. Perspective Chapter: Device, Electronic, Technology for a M.E.M.S. Which Allow the Extraction of Vacuum Energy Conform to Emmy Noether Theorem -- 6. Performance Evaluation of Desalination Technologies at Common Energy Platform -- 7. Contributing by Monitoring Energy Efficiency to the Development of Optimization Measures to Improve Energy Performance in an Industrial Platform -- 8. Energy Efficiency, Emissions and Adoption of Biomass Cookstoves -- 9. Energy Efficiency: The Overlooked Energy Resource -- 10. The Use of Computational Fluid Dynamics in the Analysis of Gas-Liquid-Liquid Reactors -- 11. Industrial Design Energy Efficiency and GHG Emission Reduction via Steam and Power Systems Optimization -- 12. Improve Energy Efficiency in Surface Mines Using Artificial Intelligence -- 13. Energy, Economic and Environmental (3E) Assessments on Hybrid Renewable Energy Technology Applied in Poultry Farming -- 14. The Impact of Energy Efficiency Programmes in Ghana -- 15. Optimized Energy Efficiency in a Telecommunication

Company: Machine Learning Approach.

Sommario/riassunto

Global energy demand is expected to grow 47% by 2050, with oil remaining the number one source of energy. Renewables make up 27% of the global energy mix, as predicted by the International Energy Agency (IEA). To achieve IEA's 2050 Net Zero targets, the electricity sector needs to reduce global emissions by nearly three-quarters. Even though renewables installations are expanding quickly, there is not enough to satisfy a strong rebound in global electricity demand. This will result in a sharp rise in the use of fossil fuel electricity generation that risks pushing carbon dioxide emissions. This book presents a comprehensive overview of energy efficiency, alternative energy resources, and process optimization for future sustainability.
