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Gujarat, India -- A Comprehensive review of potential sites for CO2 Sequestration in India -- Economic analysis of Pumped storage hydropower technology -- Environmental impact of drilling fluid waste and its mitigation techniques -- Intelligent EOR Screening using Fuzzy Logic -- New Insights on Digital Transformation for Petroleum Industry -- Investigation on risk assessment by Monte Carlo Analysis (MCS) -- Generation of green hydrogen using semiconductor-based nanomaterials -- Surface morphology studies on Al-Steel dissimilar friction stir spot joints -- Solution for Optimal Power Flow Problem Using WDO Algorithm.

Sommario/riassunto

This volume comprises the select proceedings of the International Conference on Materials for Energy Storage and Conservation (MESC 2022). It aims to provide a comprehensive spectrum picture of the state-of-the-art research and development in diverse areas such as energy conservation, chemical energy storage, electrical and electromagnetic energy storage, energy management, biological energy storage, nanotechnology for renewable energy, solar cell materials, thermal energy storage, energy storage risk analysis, environment and health effects of energy efficiency, among others. This volume will be of interest to researchers, academicians, professionals, policymakers, scientists, and members of the industry working in the field of energy storage and conservation.