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Nota di contenuto	Experimental Investigation on Corrosive Nature of Acid Oil Biodiesel on Selected Automotive Materials -- Clear Sky and Real Sky Solar Radiation Modelling for Locations in India -- Prediction and Optimization of Thermal Conductivity and Viscosity of Stable Plasmonic TiN Nanofluid Using RSM and ANN Combined Approach for Solar Thermal Application -- From Slum to Slum Rehabilitation Housing: Comparing the Factors Affecting Energy Consumption and Environmental Satisfaction among the Low-Income Housing in Mumbai -- Experimental Investigation of Cooling Photovoltaic Panel using Turbo-Ventilator -- Thermal Performance of Multi-Tubular Sensible Energy Storage with Coil Inserts -- Modeling and Comparative Thermal Performance Analysis of a Biomass Gasifier using Different Gasifying Agents -- The Corrosion Analysis of Diesel Engine Parts on Application of Dual Biodiesel Blend -- Thermal Analysis of Multi Reflector Compound Parabolic Collector

(MRCPC) -- Capture and Characterization of Particulates from a Single-Cylinder Diesel Engine Fuelled with Refined Tire Pyrolysis Oil -- Estimation of Heat Generation and Thermal Behavior of Cylindrical Lithium-Ion Battery Under Natural Convection -- Numerical Investigation of the Thermal and Emissions Performance of a Hybrid Draft Biomass Cookstove -- Numerical Investigation of Melting of Layered PCM in Squared Cavity -- Electrochemical Hydrogen Storage within a Modified Reversible PEM Fuel Cell and its Performance Analysis with Interdigitated and Spiral Micro Flow Channels -- Effects of Ambient Condition on the Performance of Ammonia based Loop Heat Pipe -- Design and Development of Artificial Neural Network Based Prediction Model for Hemispherical Solar Still.

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Sommario/riassunto

This book presents selected papers from the 8th International Conference on Advances in Energy Research (ICAER 2022), providing coverage encompassing advanced conventional energy technology, renewable and non-conventional energy technology, electric mobility, energy storage, energy, environment and society, industry innovations in energy, sector-coupled energy system, and energy education. The contents of this book are of use to researchers from not only scientific background, but also economics and anthropology. It encourages researchers to conduct research on the ways to assess and analyse the acceptance of the novel energy forms among the mass population from a financial and social perspective.

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