1. Record Nr. UNINA9910410020703321

Titolo	Advances in Greener Energy Technologies / / edited by Akash Kumar Bhoi, Karma Sonam Sherpa, Akhtar Kalam, Gyoo-Soo Chae
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-4246-5
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XIV, 857 p. 509 illus., 422 illus. in color.)
Collana	Green Energy and Technology, , 1865-3537
Disciplina	634.905
Soggetti	Renewable energy sources Electric power production Energy storage Renewable Energy Electrical Power Engineering Mechanical Power Engineering Mechanical and Thermal Energy Storage
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	An Overview on Structural Advancements in Conventional Power System with Renewable Energy Integration and role of Smart Grids in Future Power Corridors -- Cyber security for Smart Grid: Threats, Solutions & Standardization -- Solar fuels via two-step thermochemical redox cycles -- Internet of Things (IoT) Application in Green Computing: An Overview -- A PSO Based Multi-Objective Optimization, to Satisfy the Electrical Energy Demand through Renewable Energy Integration: A Case Study -- EMI Concerns, Measurements and Standards for Smart Grid -- Extraction of solar module parameters using Jaya optimization algorithm -- A Multilevel Inverter Controlled Photovoltaic Generation -- A Study on the Airflow Variation and Energy Consumption of Apartment Complexes in Medium Cities -- Real Time Smart Volumetric Fuel Estimation System for Automobiles under all Road Conditions -- Energy Efficiency and QoS Evaluation of Radio Resource Management Techniques for M2M Communications in LTE-based Cellular Systems.
Sommario/riassunto	This book presents ongoing research activities of currently available renewable energy technologies and the approaches towards clean

technology for enabling a socio-economic model for the present and future generations to live in a clean and healthy environment. The book provides chapter wise implementation of research works in the area of green energy technologies with proper methods used with solution strategies and energy efficiency approaches by combining theory and practical applications. Readers are introduced to practical problems of green computation and hybrid resources optimization with solution based approaches from the current research outcomes. The book will be of use to researchers, professionals, and policy-makers alike.