

1. Record Nr.	UNINA9910830457103321
Autore	Sahoo Umakanta
Titolo	Progress in solar energy technologies and applications / / edited by Umakanta Sahoo
Pubbl/distr/stampa	Hoboken, New Jersey ; ; Beverly, Massachusetts : , : Scrivener Publishing : , : Wiley, , [2019] ©2019
ISBN	1-119-55567-1 1-119-55565-5 1-119-55568-X
Descrizione fisica	1 online resource (xiii, 364 pages)
Disciplina	621.47
Soggetti	Solar energy - Technological innovations
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Reliability testing of PV module in the outdoor condition / Birinchi Bora, O.S. Sastry, Som Mondal and B. Prasad -- Solar energy technologies and water potential for distillation : a pre-feasibility investigation for Rajasthan, India / Nikhil Gakkhar, Manoj Kumar Soni and Sanjeev Jakhar -- Design analysis of solar photovoltaic power plants for northern and southern regions of India / Sanjay Kumar -- Cold storage with backup thermal energy storage system / K. Sahoo, B. Bandhyopadhyay, S. Mukhopadhyay, U. Sahoo, T.S. Kumar, V. Yadav and Y. Singh -- Development of parabolic trough collector based power and ejector refrigeration system using eco-friendly refrigerants / D.K. Gupta, R. Kumar and N. Kumar -- Unlocking the design of stand-alone and grid-connected rooftop solar PV systems / Tanmay Bishnoi.
Sommario/riassunto	"Energy is one of the most important topics of our time, and renewable energy has been a long and still-unfolding story that has taken decades to bring us to where we are today. Even after so much progress, engineers and scientists are always still developing new and innovative techniques, processes, equipment, and materials to further the science and fulfill the mission of generating cleaner, renewable energy for the world's consumption. This new groundbreaking series, Advances in Renewable Energy, covers these topics across the spectrum, including

solar, wind, and other renewable energy sources. This first volume in the series focuses on solar energy, probably the fastest-growing and developing area of renewable energy. With new materials and processes constantly coming online, it is important for engineers and scientists to stay abreast of the state-of-the-art in the field, and this volume does just that. Covering not just the basics of the technology and technological advances, the contributors delve into the financial aspects of solar energy systems as well. They look at total costs, not just initial costs, but the costs of maintenance, as well. Covering nearly every aspect of solar energy systems and the latest advances in the field, this is a must-have volume for any engineer, scientist, student, or educator working in or studying solar energy"---
