

1. Record Nr.	UNINA9910743265403321
Titolo	Advances in Energy Technology : Select Proceedings of EMSME 2020 // edited by Ramesh C. Bansal, Anshul Agarwal, Vinay Kumar Jadoun
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2022
ISBN	981-16-1476-8 981-16-1475-X
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (783 pages)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 766
Disciplina	895.134
Soggetti	Energy harvesting Electric power distribution Photovoltaic power generation Solar energy Energy Harvesting Energy Grids and Networks Photovoltaics Solar Thermal Energy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Wafer based technology -- Materials Science and Engineering -- Crystalline and non-crystalline Si solar cell -- Poly Crystalline & Amorphous Materials -- Nano sciences and nanotechnologies -- Nano-materials and Nano-composites -- Nanotube Silicon Solar cell -- Thin Film Solar Cell Technology -- Organic-Inorganic Solar Cell -- Single or Multijunction Solar Cell -- Polymer Based Solar Cell -- Perovskite Solar Cell.
Sommario/riassunto	This book presents select proceedings of International Conference on Energy, Material Sciences and Mechanical Engineering (EMSME) 2020, held at National Institute of Technology Delhi. Various topics covered in this book include clean materials, solar energy systems, wind energy systems, power optimization, grid integration of renewable energy, smart energy storage technologies, artificial intelligence in solar and wind system, analysis of clean energy material in environment,

converter topology, modelling and simulation. This book will be useful for researchers and professionals working in the areas of solar material science, electrical engineering, and energy technologies.
