1. Record Nr. UNINA9911019626003321

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Titolo	Advancements in Non-Conventional Cooling and Thermal Storage Strategies
Pubbl/distr/stampa	John Wiley & Sons, Inc, 2024
ISBN	9781394189953 1394189958 9781394189946 139418994X 9781394189939 1394189931
Edizione	[1st ed.]
Descrizione fisica	1 online resource (381 pages)
Disciplina	697
Soggetti	Cooling systems Heat storage
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- List of Contributors -- Preface -- Chapter 1 Introduction to Advancements in Non Conventional Cooling and Thermal Storage Strategies: Technologies for More Sustainable Space Conditioning -- 1.1 Background -- 1.2 Key Contribution of Each Chapter -- References -- Chapter 2 Potential Assessment of Hydrofluoro RefrigerantBased Adsorption Cooling Systems -- 2.1 Introduction -- 2.2 System Description -- 2.3 Mathematical Modeling -- 2.4 Results and Discussion -- 2.4.1 Performance Evaluation of Standalone Cooling Systems -- 2.4.2 Performance Evaluation of Cascaded Configurations -- 2.4.2.1 Performance Evaluation of Configuration A -- 2.4.2.2 Performance Evaluation of Configuration B -- 2.5 Conclusions -- References -- Chapter 3 Optimal Utilization of Waste Biomass for the Development of Minimal Emission Sustainable Cooling Systems -- 3.1 Introduction -- 3.2 Experimental -- 3.2.1 Waste Raw Precursors: Mangrove and Palm -- 3.2.2 Activated Carbon Synthesis -- 3.2.3 Adsorbate: R32 -- 3.2.4 Thermogravimetric Analyzer (TGA) -- 3.2.5 Measurement

Procedure -- 3.2.6 Isotherm Models

Sommario/riassunto

This book explores advancements in cooling and thermal storage strategies with a focus on sustainable space conditioning. It addresses the critical issues of energy consumption and environmental impact associated with conventional cooling systems. By examining adsorption and absorption technologies, metal-organic frameworks, and phase-change materials, the authors aim to provide innovative solutions to reduce energy consumption and tackle climate change challenges. The book is intended for researchers, engineers, and professionals in the fields of energy and environmental science, offering fresh perspectives on passive cooling strategies, renewable energy integration, and thermal energy storage systems.

2. Record Nr. UNINA9910141549303321

Titolo	Advanced biomedical research
Pubbl/distr/stampa	Mumbai, India, : Medknow Publications and Media Pvt. Ltd
ISSN	2277-9175
Descrizione fisica	1 online resource
Soggetti	Medicine - Research Biology - Research Biomedical Research Periodical Fulltext Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed A peer-reviewed online journal with continued print on demand compilation of issues published.