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Titolo	Advances in desiccant dehumidification : from fundamentals to applications // Vivekh Prabakaran and Kian Jon Chua
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
ISBN	3-030-80843-2
Descrizione fisica	1 online resource (164 pages)
Disciplina	697.9323
Soggetti	Humidity - Control Dampness in buildings
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	This book systematically analyses state-of-the-art technology and research related to desiccant dehumidification. It provides key insights into the current research direction, and presents global research and development interests. It begins by offering a comprehensive review of conventional desiccants and their underlying engineering challenges. Fundamental material characteristic properties and factors critical to the desiccant synthesis are highlighted. The applicability of next-generation advanced materials to address the challenges is documented, and the advantages of desiccant coated heat exchangers are evaluated. Lastly, the potential applications of desiccant dehumidifiers in various energy-connected applications are discussed, and case studies on industrial/building cooling systems are provided. Specifically targeted at HVAC engineers, thermal scientists, energy-engineering researchers, and graduate-level students in the field, the technical content balances fundamental concepts and applications.

2. Record Nr.	UNINA9910551853003321
Titolo	International journal of mechanical system dynamics
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Descrizione fisica	1 online resource : illustrations
Disciplina	621
Soggetti	Machinery, Dynamics of Mechanical engineering Systems engineering Dynamics Engineering design Dynamic testing Engineering models Simulation methods Dynamique des machines Génie mécanique Ingénierie des systèmes Dynamique Conception technique Modèles techniques Méthodes de simulation Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico