



Desiccant-Assisted Cooling: Fundamentals and Applications

Carlos Eduardo Leme Nóbrega

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The increasing concern with indoor air quality has led to air-quality standards with increased ventilation rates. Although increasing the volume flow rate of outside air is advisable from the perspective of air-quality, it is detrimental to energy consumption, since the outside air has to be brought to the comfort condition before it is insufflated to the conditioned ambient. Moreover, the humidity load carried within outside air has challenging HVAC engineers to design cooling units which are able to satisfactorily handle both sensible and latent contributions to the thermal load. This constitutes a favorable scenario for the use of solid desiccants to assist the cooling units. In fact, desiccant wheels have been increasingly applied by HVAC designers, allowing distinct processes for the air cooling and dehumidification. In fact, the ability of solid desiccants in moisture removal is effective enough to allow the use of evaporative coolers, in opposition to the traditional vapor-compression cycle, resulting in an ecologically sound system which uses only water as the refrigerant.

Desiccant Assisted Cooling: Fundamentals and Applications presents different approaches to the mathematical modeling and simulation of desiccant wheels, as well as applications in thermal comfort and humidity controlled environments. Experts in the field discuss topics from enthalpy, lumped models for heat and mass transfer, and desiccant assisted radiant cooling systems, among others.

Aimed at air-conditioning engineers and thermal engineering researchers, this book can also be used by graduate level students and lecturers in the field.

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Exactly why? Because this Desiccant-Assisted Cooling: Fundamentals and Applications is an unordinary book that the inside of the book waiting for you to snap that but latter it will zap you with the secret this inside. Reading this book close to it was fantastic author who have write the book in such incredible way makes the content within easier to understand, entertaining way but still convey the meaning thoroughly. So , it is good for you because of not hesitating having this anymore or you going to regret it. This phenomenal book will give you a lot of gains than the other book have such as help improving your proficiency and your critical thinking means. So , still want to postpone having that book? If I were being you I will go to the reserve store hurriedly.

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