
This research demonstrates the development and transient simulation of a novel solar-assisted desiccant wheel-based system for ...

Some of the most important parameters are Temperatures, relative humidity, air velocity, Density of CO2 and volatile organic compound. Practically, there are various national and international ...

In summary, the novel solar assisted desiccant wheel and adsorption cooling system proposed in this paper achieves greater dehumidification and higher cooling capacity in high ...

In the present work, experiments have been performed to examine the cooling and dehumidification process in the summer season for human comfort and industrial application ...

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In this study, a one-dimensional mathematical model has been developed to analyze the parameters of the passive wheel and to compare this with the existing active ...

This research demonstrates the development and transient simulation of a novel solar-assisted desiccant wheel-based system for heating and humidification (SDHH) in Taxila, ...

Experimental Study on a Solar Powered Two-Stage Solid Wheel Desiccant Air Conditioning System. A new formulation, that employs both two-stage dehumidification and intercooler to ...

To reduce energy consumption in temperature- and humidity-independent air-conditioning systems and enhance solar energy utilization, this study developed a solar ...

It is investigated how solar energy is used to generate power and the effects of airflow rate and increases moisture removal rate (double sorbent wheel). The study"s ...

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The article covers modifications and advances in desiccant materials, existing solid and liquid desiccant dehumidification systems, and hybridization techniques particularly ...

The automatic control devices, testing equipment, and control technology of Saginomiya Seisakusho are playing an active role in a wide range of fields.

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