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Title: Double-pass solar system

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Photovoltaic thermal double pass solar air heater (PVT-DPSAH) with PCM capsules in the bottom channel is a promising design for enhancing the system performance. The PVT-DPSAH ...

Effects of solar radiation and air mass flowrate on DPSAH performance have been investigated. The results show that DPSAH produces higher ...

In this article, a detailed assessment of the efficiency and effectiveness of a solar air heater has been conducted by applying ...

In this investigation, the effect of replacing the conventional solar absorber with a new solar absorber on the thermal performance of a double-pass solar air heater has been ...

The energy and exergy analyses on a single pass flat plate, double pass a roughened plate, double pass a finned plate, and double pass wire work SAHs have been published by ...

This paper aims to reviews recent development (5 years) on double pass solar collector (DPSC) where it highlights the improvement methods, functioning parameters, ...

In this article, a detailed assessment of the efficiency and effectiveness of a solar air heater has been conducted by applying various types of double-pass arrangements.

Effects of solar radiation and air mass flowrate on DPSAH performance have been investigated. The results show that DPSAH produces higher efficiency when the system is operated under ...

For the first time, the present study includes a double pass solar air collector using PCMs RT44HC (high melting point) and RT25HC (low melting point) in upper pass and lower ...

This study introduces a novel PV/T system integrated with a double-pass solar water collector featuring turbulence-inducing fins, designed to enhance heat transfer and ...

In this paper, is devoted to evaluating the performance of the double-pass hybrid Photovoltaic-Thermal (PVT) solar system proposed for drying purposes theoretically and experimentally as ...

In the present experimental investigation, a double pass SAC is fabricated, and the absorber plate is coated using activated carbon derived from the waste tea dust to augment ...

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