

عنوان مقاله:

A review on definitions of phase change materials developments

محل انتشار:

ششمین کنگره ملی عمران، معماری و توسعه شهری (سال: 1398)

تعداد صفحات اصل مقاله: 13

نویسنده:

Behnaz Mirsane - Tabriz Islamic Art University, Tabriz, Iran

خلاصه مقاله:

Phase change material (PCM) has high-energy storage densities (10 times that of concrete) and Many PCMs have been identified with phase change temperature near the indoor comfort temperature of 21°C. So they can use very much in buildings applications such as: ventilation systems, passive heating and cooling systems, floors, roofs and wallboards. PCMs can also be incorporated directly into building materials such as concrete and wallboards and etc. With this wide usage of PCM the main drawback of most of them is low thermal conductivity that decreases the heat transfer rate and it could be enhance by insertion of high conductive metal configurations and nano-particle. This paper presents a review of the latest developments of phase change materials (PCMs) and their applications in the built environments

کلمات کلیدی:

Phase change material (PCM), Review, Developments, Building applications

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1003668>

