

عنوان مقاله:

Experimental and Numerical Study of an Underground Room Temperature Variation in A Cold Environment

محل انتشار:

اولین کنفرانس ملی تحقیقات بنیادین در مهندسی مکانیک (سال: 1397)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

The underground temperature is needed to be known in the cold and very cold environment for several reasons such as keeping fruits, vegetables and etc. To get the real temperatures, an underground room was built in a cold environment and several electronic temperature gages were placed around the room, under the room surface, on the top of the room and also on the top surface of the ground. Several variations such as wind, rain, ice, and sun were considered and the temperatures were gained and graphed according to the variations as mentioned before. The gained experimental temperatures showed that the temperature remained constant between zero and seven degrees at most times. The temperature variation raised during a rainy and sunny weather condition and it decreased in an icy and windy environment. But it never went above ten degrees centigrade or under freezing point.

کلمات کلیدی:

Cubic cavity, Temperature distribution, Heat transfer, Experimental

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