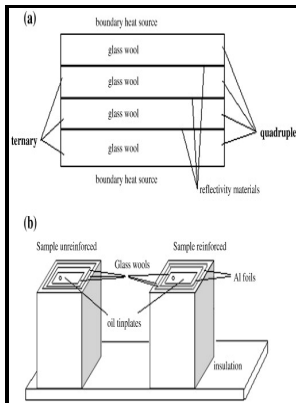


Thermal conductivity and drying studies in moistened granular beds.

University of Birmingham - Experimental and Theoretical Modeling of the Effective Thermal Conductivity of Rough Steel Spheroid Packed Beds



Description: -

- Thermal conductivity and drying studies in moistened granular beds.

- Thermal conductivity and drying studies in moistened granular beds.

Notes: Thesis (Ph.D.)-University of Birmingham, Dept of Chemical Engineering.

This edition was published in 1973



Filesize: 22.64 MB

Tags: #Thermal #Conductivity #of #Beds #of #Spherical #Particles

The physical nature of thermal conduction in dry granular media

In this study a new self-designed device, consisting of two cylindrical cavities connected to a Transient Plane Source instrument, is used to determine the thermal conductivity of low-density nanoporous silica powders, from atmospheric pressure down to 0.

Raghuram Karthik's Site on Strikingly

However, they noted that the results depend on the thermal conductivity of soil at elevated temperatures, which was assumed to depend mainly on the changes of the air thermal conductivity in pores.

Computational Study of the Effects of Material Properties on Heat Transfer in Gas Fluidization

Journal of Food Engineering 2004; 61 3 : 399-05.

Raghuram Karthik's Site on Strikingly

The use of lightweight aggregate as lightweight concrete is an option to reduce the dead load on a building, especially for high-rise buildings.

The Effect of Mix Design on Mechanical and Thermal Properties Oil Palm Shell (OPS) Lightweight Concrete

To ensure that proportions of components were kept the same and for easier compaction, soil was moistened first. For each analysis, temperatures of the top and bottom plates were set at 12 C and 2 C, respectively.

A study of the thermal conductivity of granular silica materials for VIPs at different levels of gaseous pressure and external loads

This influence of the gas pressure is implemented in the analytical model. This cycle comprises of an upward and downward motion of the rheometer blade to remove any residual stress.

A study of the thermal conductivity of granular silica materials for VIPs at different levels of gaseous pressure and external loads

This study used the lowest sand ratio 1. The growing need for sustainable development has motivated researchers to focus their research on the use of waste or recycled materials in potential construction material. Lastly, elevated temperatures may induce sufficient thermal gradients in the dry porous space to initiate interparticle radiation which has the potential to greatly increase heat transfer compared to conduction alone Fillion et al.

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