Liquid air solar container comsol

This comprehensive review discusses the recent advancements in packed bed latent heat storage (PBLHS) with spherical containers, a promising technology for storing thermal energy. ...

In this archived webinar, we introduce you to simulating moisture transport and heat transfer in COMSOL Multiphysics ®. We also demonstrate how to model condensation detection and heat transfer in building materials.

Hello, I am simulating a complex geometry in COMSOL that consists of various shapes (e.g., cones, cylinders), each with different radius. I want to fill all the internal hollows and gaps inside ...

To add more species to the Dry air and Moist air systems, use the Species Type filter text field to search among the available species in the COMSOL database or the User-Defined Species.

The Thermodynamic Properties Database This introduction booklet demonstrates the use of the built-in thermodynamic properties database in the Liquid & Gas Properties Module. The purpose of this ...

This study deals with coupled optical, CFD and heat transfer analysis of a cavity air receiver (shown in figure 1) used for converting concentrated solar radiation to heat using pressurized air. COMSOL ...

In previous versions of COMSOL Multiphysics (up to version 5.3), a specific physics interface called Fluid-Structure Interaction was added to the Model Builder. Now, a predefined multiphysics coupling ...

Among various types of solar thermal distillation, a solar still has been the most feasible system to produce fresh water with its simple equipment setup. A solar still consists of two reservoirs in a ...

COMSOL Multiphysics ® version 5.6 introduces the new Liquid & Gas Properties Module, which provides tools for computing thermodynamics properties, including density, viscosity, thermal ...

The Liquid & Gas Properties Module User"s Guide is a consummate guide to using the add-on module Liquid & Gas Properties Module. Instructions how to use COMSOL in general are included with the ...

In the real world, this effect is observed when pouring milk or orange juice from a container. The liquid tends to exit the container in a periodic motion. If the carton is pierced so that displaced air can ...

5.2 Dynamic Viscosity The effect of PCM dynamic viscosity on the melting front was also studied, and it was found that for lower viscosities there is more melting along the top of the container due a ...

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