

## Modeling Of Humidification In Comsol Multiphysics 4

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11/17/2015 1 Modeling of Humidification in Comsol Multiphysics 4.4 Indrajit Wadgaonkar, Advanced Engineering Tata Motors Ltd. Pune

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We have now reviewed the COMSOL® software features dedicated to the modeling of heat and moisture transport in moist air. Depending on the application, you may want to solve only for heat transfer and use the temperature prediction to detect condensation, or you may need to go further by computing the temperature and moisture distributions in a coupled way.

*How to Model Heat and Moisture Transport in Air with COMSOL®*

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The Comsol model imports industrial characteristic curves data of condensed water capacity in time in 1/24h as function of air temperature and relative humidity by. interpolation functions tool (interpolation linear and extrapolation constant available for 2D functions). (4)

*Numerical Modeling and Performance ... - COMSOL Multiphysics®*

with Modeling of Humidity Sensor using COMSOL Multiphysics ®, section 6 deals with optimization of the humidity sensor for better response time and sensitivity and section 7 elaborates the conclusion. 2. Humidity Sensors. Humidity sensors are used to senses and measure the Relative Humidity (RH) for various applications.

*Design of High Sensitivity and Fast ... - COMSOL Multiphysics*

One of the main parameters to consider during the nuclear waste storage design phase is the drum corrosion risk. The humid-air corrosion models available in literature predict that, for carbon steel, the phenomena start to become appreciable for relative humidity (RH) values close to 65%.

*Numerical Modeling and Performance ... - comsol.de*

Improvements in the design and operation of the fuel cell humidification chamber are suggested based on model results. It has been demonstrated here, how effectively transport species, porous media flow and heat transfer can be coupled in COMSOL Multiphysics®.

*Computational Multiphysics to Optimize Humidification ...*

The COMSOL software was used for modeling the moisture transport through the walls of the tower. Keywords: Driving rain, moisture problems, heat and moisture transport, measurement, simulations 1.

*The use of COMSOL for Building Constructions Engineering ...*

In this work we model the time dependent carbonation process of a concrete by using the Chemical Reaction Engineering Module of Comsol Multiphysics. The carbonation reaction is set up in the Reaction Engineering interface, then we use the Generate Space-Dependent Model feature tool to export the properties to the Transport of Diluted Species physics.

*A Model of Concrete Carbonation Using COMSOL Multiphysics®*

model for concrete viscoelasticity is based on Kelvin chains. COMSOL flexibility has allowed building a brand new mathematical model, exploiting equation-based modeling capabilities. The generalized Kelvin model consists of an elastic spring to represent the instantaneous stiffness plus n Kelvin-Voigt branches connected in series.

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