

Modeling Of Humidification In Consol

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

Modeling of Humidification in Consol Multiphysics 4

Keywords: Humidification, Consol. 1. Introduction . Humidifiers have become key components in a variety of applications ranging from air conditioning to fuel cells. Most often humidifiers rely upon evaporation of water droplets which presents a complex heat and mass transfer problem. Hence it is desirable to model the

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Modeling of Humidification Using COMSOL Multiphysics® I. Wadgaonkar1 1Tata Motors Ltd., Pune, India Abstract Humidification is a complex phenomenon including multiphase flow along with heat and mass

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Learn how to model moisture flow. This blog post explains how to use the Moisture Flow multiphysics interface in the COMSOL® software and introduces a modeling example. This blog post explains how to use the Moisture Flow multiphysics interface in the COMSOL® software and introduces a modeling example.

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The 2D and 3D model of the fuel cell were designed and simulated in COMSOL. The fuel cell model is as shown in Fig. 1. It consists of top view of the anode and cathode Gas diffusion layers and the proton exchange membrane sandwiched in between.

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humidifier model, and the application of which for fuel cell humidity control. The model presented in this paper captures the fluid flow dynamics, water exchange through the membrane, and the temperature dynamics of the humidifier. Unlike conventional humidifier analysis that assumes steady state condition, this model includes the time varying aspect of gas flow, temperature, pressure and ...

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modeling' & 'Towards full 3D HAM modeling of a room using COMSOL, air volume and airtight construction HA modeling'. After evaluating these cases, it is concluded that the approach is quite promising.

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