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(PDF) Thermal modeling of high-current solid targets

thermal modeling of SOFCs has generated significant interest in recent years, resulting in highly detailed CFD and FEM based models that predict the coupled current density, flow, species, and temperature fields within a cell.

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keywords: PCMs, Modeling, Solid-liquid, Enthalpy-based, Heat capacity Abstract. Three thermal modeling methods for phase change materials (PCMs): enthalpy-based method, effective heat capacity method and apparent heat capacity I are presented in details.

Thermal Modeling Solid-liquid Phase Change Materials (PCMs)

Overview In this white paper we define and then outline the concept of thermal analysis as it relates to product design. We discuss the principles of conduction, convection, and radiation using real-life products as examples.

Overview - SOLIDWORKS

A Short Tutorial on Thermal Modeling and Management Kevin Skadron, Mircea Stan, co-PIs Wei Huang, Karthik Sankaranaryanan ... solid with the application of heat) ... Simplistic dynamic thermal model

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Thermal System Modeling - 3 - equation, \hat{I} stands for the specific heat conductance, c for the specific thermal capacitance and \hat{I} for the density of the material. T describes the temperature and x the coordinates in the direction of heat propagation.

Thermal Modeling of Power-electronic Systems

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