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Solved with COMSOL Multiphysics 4.3b 2 | INDUCTIVE HEATING OF A COPPER CYLINDER ©2013 COMSOL where  $\rho$  is the resistivity at the reference temperature

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1 Finite Element Simulation of Induction Heating of a Tubular Geometry K Madhusoodanan\*, J.N. Kayal and P.K. Vijayan Reactor Engineering Division,

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Abstract—Induction heating computer simulation is a powerful tool for process design and optimization, induction coil design, equipment selection, as well as ...

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Modeling of Induction Heating of Steel Billets for DPS Control Design Purposes J. Kapusta 1, J. Camber 1, G. Hultk 1 Institute of Automation, Measurement and Applied ...

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Electromagnetic induction in a ... to propose optimized solutions for induction heating devices and to ... l'outil COMSOL Multiphysics mais le doctorant ...

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• MEMS Software • COMSOL- an engineering design and finite element ... This shop houses Manual Metal Arc ... This shop houses Induction Heating ...

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• To consider the phenomena of induction heating with the CMP (Comsol Multiphysics). ... Induction heating of a conducting cylinder in a solenoid .

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thermal analysis, Induction heating, COMSOL 1. Introduction Pyrochemical reprocessing or Pyroprocessing is the best suited method for reprocessing spent

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Experimental Observation and Experimental Observation and Numerical Prediction of Induction Heating in a Graphite Test Article Heating in a Graphite Test Article

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- Heating / cooling, - Audio-video devices, ... induction and PMSM motors, ... (COMSOL platform) operation of the sensor.

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Analysis of Induction Heating System for High Frequency Welding 185 Fig. 2 In the "V"-zone HF currents flow along the two edges in opposite directions

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An Improved Model for High Temperature Inductive Heating . S. A. Halvorsen ... While the current in the induction coil is input for COMSOL, the model applies an ...

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Analytical and Experimental Validation of Electromagnetic Simulations Using COMSOL®, re Inductance, Induction Heating and Magnetic Fields Mark W. Kennedy 1, Shahid ...

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Heating and cooling processes for foods. In Handbook of Food Engineering, ... The extension of induction period increased with the slow down of release rates of films.

### [COMSOL Release Notes](http://static.comsol.com/doc/4.4/COMSOL_ReleaseNotes.pdf)

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Model Builder in a similar way to Joule Heating (COMSOL Multiphysics), Induction Heating (AC/DC Module), and Microwave Heating (RF Module). The beam

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For the simulation of induction heating problems COMSOL Multiphysics uses a complete finite element method formulation. This means that all the domains

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systems cured by induction heating. The simulation combines induced Eddy currents in electrical ... COMSOL Multiphysics is the software used to

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