Infolytica releases MagNet & ThermNet v7.3

Infolytica Corporation has released the newest versions of its simulation suite of software: MagNet, ElecNet, ThermNet and OptiNet. Specializing in electromagnetic and electric fields, Infolytica offers easy to use software solutions for engineers searching to reduce cost and obtain a better design.

Obtaining an accurate prediction of an electric motor's performance is no trivial task – particularly when you wish to couple the effects of heating and motion. It can be tedious to setup these types of problems for simulation. MagNet and ThermNet share the same model file and run a two-way coupled electromagnetic and thermal simulation, making it both easy to use and accurate.

Several substantial updates have been made to ThermNet, increasing the software's accuracy and capability to account for cooling options. Global results for temperature, heat capacity, heat flow and heat source are now reported. New boundary conditions, improved modeling of touching surfaces, anisotropic & composite materials, stranded coils and enhanced convection options work in tandem to improve the simulation of motors, generators or any other electromechanical device.

MagNet v7.3 introduces freezing the operating points of the BH property throughout a component for use in different simulations. One example of the application of this new feature is the study of small signals in the presence of a large DC offset.

Material properties can be overridden on an element by element basis in order to account for other phenomena or processes affecting the performance of a device. An example of this application is when the material properties of certain regions of a component vary due to a manufacturing process.

3D coil modeling, particular highly complex geometries, is made easier with an updated extension to MagNet which supports all common types of windings.

General improvements have also been made to third party file interoperability, specifically CATIA V5 and Inventor 2012, as well as the utility which detects and corrects faults with imported models.

Pricing and availability

MagNet, ElecNet ThermNet and OptiNet v7.3 can now be downloaded for PC's running Microsoft Windows XP, Vista and 7. For information regarding pricing or to request an evaluation, please contact an Infolytica Corporation representative nearest you.

www.infolytica.com [1]

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