

## **Portunus 4.1 provides Interface to Matlab® / Simulink®**

By developing a powerful and comfortable interface to Matlab® / Simulink®, **Adapted Solutions** has once again increased the functionality of its simulation system **Portunus®**. The appeal of the coupling available with version 4.1 lies in the simple handling and great flexibility.

Unlike many other simulator couplings, the Simulink® interface of **Portunus®** employs functions of the graphical user interfaces only. This allows for the use of several interesting features. For example, changes regarding the data exchange structure made in Portunus are instantaneously visualized in the graphical user interface of Simulink®. Coupled simulations may be started from **Portunus®** or Simulink®. Alternatively simulations can be launched automatically via scripts.

Another new feature of **Portunus 4.1** is a set of models for the simulation of magnetic circuits. The model set features sources (MMF, magnetic flux, permanent magnet), linear and non-linear reluctances, an implementation of the Jiles-Atherton model and a winding model. The user may import data sets for common materials via the parameter dialogues of the models.

The automation interface of **Portunus®** has been expanded by functions for accessing the internal result data base. The implementation of a fully automated work flow has become much easier through this.

With **Portunus 4.1** a simulation software is available which offers the optimum solution for a variety of simulation challenges. **Portunus 4.1** provides several model description types (network, block diagram, state machine, VHDL-AMS, SPICE netlists), interfaces (FLUX®, Simulink®, Motor-CAD®, SPEED®, InCa3D®), model libraries for electric, (power) electronic, thermal and mechanical systems, as well as a modern graphical user interface offering "Multiple Pages" technology.

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