

Automatic Generation of Thermal Model for 1D-CAE

Cooperation between HeatPathView and MapleSim

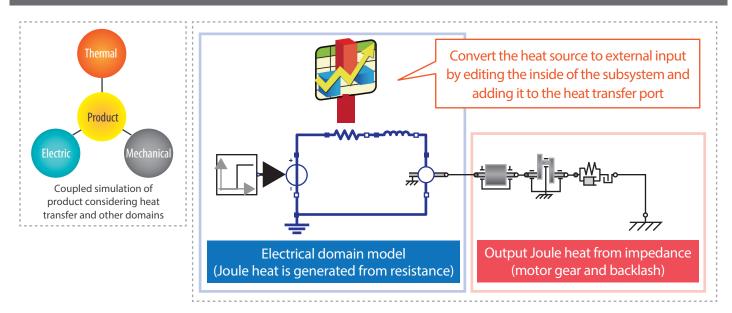
Function Details

Heat path information generated by HeatPathView can be inherited to MapleSim. By using this function it is possible to construct 1D-CAE model from 3D-CAD data and use it as multi domain heat transfer node.



CAD data Reduction of simulation result to 1D Execute 1D simulation Execute 1D simulation HeatPathView MapleSim

Example of multi domain simulation: DC motor



Notes

- Thermal model for 1D-CAE can be generated from 3D CAD data.
- Simulation of the whole system can be performed by combining domains such as electric and mechanical.
- Optimization deign can be performed by using optimization tool for the constructed model.

Software Cradle www.cradle-cfd.com