Siemens Digital Industries Software Therminic 2021 update

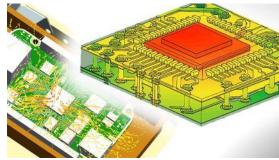


Online materials to accompany 4 sections of the Siemens workshop presentation by Dr John Parry:

1) Thermomechanical workflows in Simcenter

Webinar: Enhancing electronics thermo-mechanical analysis workflow

This webinar introduces 3 PCB thermal and thermomechanical analysis workflows. It features Simcenter Flotherm, Simcenter Flotherm XT and Simcenter FLOEFD workflows for thermal analysis followed by thermo-mechanical stress analysis in Simcenter 3D software.



New Simcenter FLOEFD 2021.1 capabilities.

Blog: https://blogs.sw.siemens.com/simcenter/simcenter-floefd-2021-1-whats-new/ (Describing Simcenter FLOEFD, CAD embedded CFD and new thermo-mechanical capabilities in the new Structural Module)

Additional content on CAD geometry based package thermal model generation: Webinar: Accelerate package thermal modeling in electronics cooling design Package Creator: For Simcenter Flotherm XT and for Simcenter FLOEFD

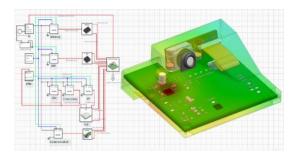
2) FANTASTIC BCI-ROM (Boundary Condition Independent Reduced Order Model)

This capability is now enabled in Simcenter Flotherm, Simcenter Flotherm XT and Simcenter FLOEFD tools for generating BCI-ROMs that support thermal design, accurate electrothermal analysis in circuit simulation (for VHDL-AMS based tools) and to support electronics thermal modeling in fast system modeling using 1D simulation software (in FMU format).

in Simcenter Flotherm

Video: BCI-ROM technology introduction
Blog: The future of thermal design – earlier
electrothermal analysis using BCI-ROMs

Video: Using BCI-ROMs (FMU) in 1D system simulation



In Simcenter FLOEFD

Video - BCI-ROM and Thermal Netlists in Simcenter FLOEFD

Blog: Thermal Management of electric vehicles using BCI-ROM in FMU format

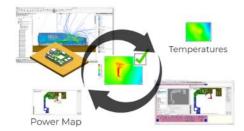
Blog: Frontloading electrical circuit analysis with thermal models

3) PCB Electrothermal modeling: Coupled Thermal simulation with Power Integrity analysis (DC drop simulation)

Video: Simcenter Flotherm XT – HyperLynx PI co-simulation

Blog: Simcenter FLOEFD - HyperLynx PI Co-simulation

capabilities



4) Simcenter Micred Quality Tester – Thermal Quality Assurance of semiconductor packages

Website: Simcenter Micred Quality Tester

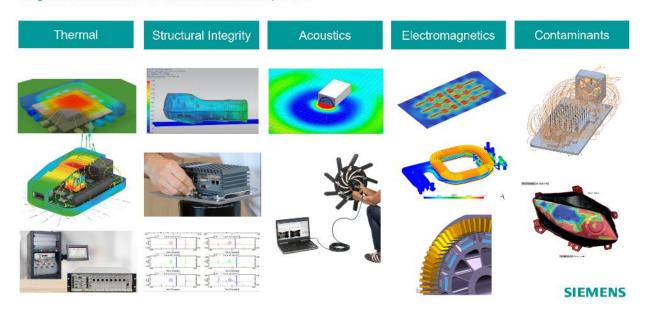
Introductory 4-minute Video: Watch now

Recorded Webinar:

Semiconductor package thermal characterization - thermal metrics, reliability to quality

Simcenter is part of the Siemens Xcelerator portfolio. Simcenter incorporates a wide range of simulation software tools and test solutions. In electronics and semiconductor related sectors, this includes domains below:

Simcenter Test and Simulation Portfolio Engineer innovation for electronics development



Simcenter website: http://www.siemens.com/simcenter

Xcelerator: website: https://www.sw.siemens.com/en-US/digital-transformation/