

Sinda Training Course Detail

This course will allow users learn how to use Sinda solvers for **Network Thermal Analysis and** to explore some of the more in-depth features of creating advanced MSC Sinda thermal models from a finite element model builder. Students will use Patran to build the lab problems.

- Day 1 & 2 - Thermal Modeling Using MSC Sinda The intent of this workshop is to provide users with comprehensive exposure to the MSC Sinda thermal analysis program. A combination of lecture and hands-on instruction is used to teach how to create MSC Sinda thermal models involving real world thermal boundary conditions.
- Day 3 - Numerical Methods in MSC Sinda The finite difference numerical methods used in the steady state and transient solutions of MSC Sinda will be discussed. Information on convergence, stability, control constants, and errors associated with the numerical methods will be presented.
- Day 4 - Advanced MSC Sinda This day cover advanced MSC Sinda concepts. The flow of a steady state or transient model is discussed. The Fortran file produced by MSC Sinda is discussed so all key variables and arrays are described. Adding Fortran and using these variables and arrays are also addressed. The Pre-Preprocess (PPP mode) is explained and lab problems with global variables will be done.
- Day 5 – MSC Sinda for PATRAN and other Graphical Modelers MSC Sinda Covers the basics of using our graphical pre-post processors such as MSC Sinda for PATRAN. Participants will learn how to create geometry in 3-D, add boundary conditions, and post process the results