Thermal Software System (TSS) v14.01 -

+ 12 software applications to allow you to perform spacecraft thermal design.
+ Uses CAD models directly in STEP AP 203, STEP AP 214 and IGES format.
+ Leverages existing CAD data without expensive 3rd party software to prepare model.
+ Easy to use 508 Compliant interface.
+ Direct interface with Structural Analysis Tool (SAT)
+ Software that synthesizes your design with input from the entire project group.
+ Simulates energy balance on free flying spacecraft, with the following equation.

Orbit

Heatrate

Direct incident flux (S A P) for all nodes [Watts/cm^2]
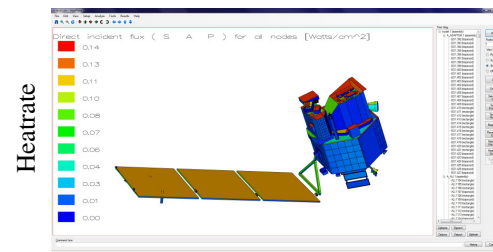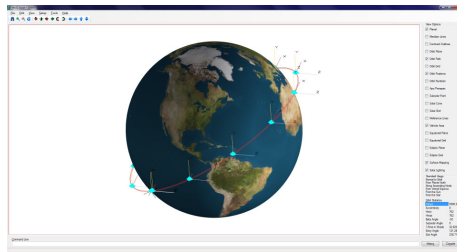
$$(mc)_i \left(\frac{dT}{d\tau} \right)_i = \sum_{j=1}^{N} G_{i-j}(T_j - T_i) + \sigma \sum_{j=1}^{N+1} R_{i-j}(T_j{}^4 - T_i{}^4) + Q_i$$

TSS allows your users to quickly and easily generate the needed inputs and solve this energy balance.

Geometry

Temperature — F

Radk

Bij to space for all nodes.

SindaWin
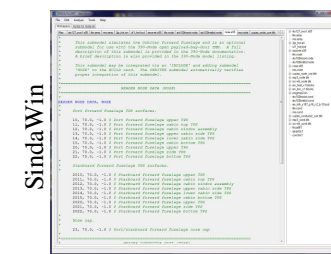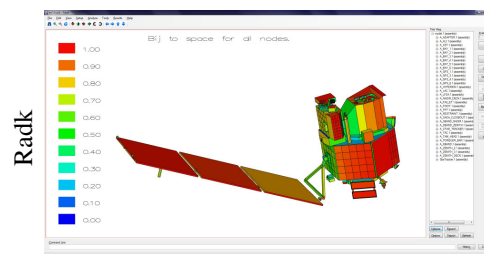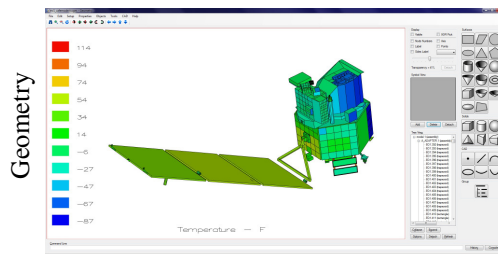
Thermal Software System for Free Flying Spacecraft.