



PRODUCT SELECTION GUIDE

✓ - required
 O - optional
 R - recommended

This Product Selection Matrix is designed to aid in matching customer needs to our products. To ensure our products meet your needs, we recommend evaluating the software and consulting with a sales representative prior to purchasing any product.

	SINDA/FLUINT	Sinaps®	Thermal Desktop®	RadCAD®	FloCAD®
General Usage					
Component level modeling	✓	R*	R*		
System level modeling	✓	R*	R*		
FE modeling	✓		✓		
FD or lumped parameter modeling	✓	R*	R*		
Build geometric CAD models	✓		✓	O	O
Build/view models as R-C networks	✓	✓			
Using abstract network representations	✓	R			
Thermal/Fluid Analysis					
Calculation of temperatures	✓	O	O		
Model fluid system	✓	O			O
Thermal Radiation Analysis					
Calculate form factors and radiation conductors				✓	
Calculate orbital heating rates				✓	
Calculate of trajectory heating rates				✓	
Devices and Special Materials					
Heaters	✓	O	O		
Heat pipes	✓	O			R
Loop heat pipes (LHP) & Thermosyphons (LTS)	✓	O			O
Thermoelectric coolers (Peltier devices)	✓	O	R		
Louvers	✓			R	
Ablation	✓	O	R		
Phase change (PCM) and energy storage	✓	O	R		
Anisotropic materials	✓		R		

* Either Sinaps or Thermal Desktop GUI is recommended



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Export Capabilities					
SINDA/G			R		
ESATAN			✓		
TSS and Trasys				✓	
NASTRAN and ANSYS temperature mapping			✓		
Step 209			✓		
Import Capabilities					
SINDA/FLUINT text files		R			
SINDA/G text files		R*			
TSS and TRASYS				R	
IGES			R		
NASTRAN and ANSYS			R		
FEMAP			R		
STEP and STEP-TAS			R		
ACIS			R		
Advanced Design					
Trade studies and parametric analysis	✓	O	O		
Design Optimization	✓	O	O		
Reliability engineering	✓	O	O		
Worst-case scenario seeking	✓	O	O		
Model correlation	✓	O	O		
Program Interfaces					
Launch from Excel	O		O		
Custom interface development	O	O	O		

* Free SINDA/G Translator available

** Requires AutoCAD Mechanical or Mechanical Desktop

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