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TAC03D/PC

A Three - Dimensional Finite Element Heat Transfer Code for PC

TAC03D/PC is a three-dimensional finite element code for heat transfer analysis. The code can perform both linear and nonlinear analyses and can be used to solve either transient or steady state problems.

The code has the capability to handle time and or temperature dependent materials properties. Materials may be either isotropic or orthotropic. A variety of time and temperature dependent boundary conditions and loading are available including temperature, flux, convection, and radiation boundary conditions and internal heat generation.

Additionally, **TAC03D/PC** has some specialized features such as enclosure radiation, bulk nodes, and master/slave internal surface conditions (e.g., contact resistance). Data input via a free-field format is provided. A user subprogram feature allows for any type of functional representation of any independent variable. A profile (bandwidth) minimization option is also available. The code at present is limited to implicit time integration for transient solutions. Graphical representation of data in the form of time history and spatial plots is provided through links to post-processing codes, which is not included in the software package and should be purchased as separate package from GAE.

We at **Galaxy Advanced Engineering Inc.** have taken steps to produce the PC version, i.e. **TAC03D/PC**. Currently the program is running on IBM AT/386 or 100% compatibles with minimum 1 MB RAM under the PC/DOS or MS/Windows95/98/2000/XP/ME and NT operating system. To order this code, please contact our company at (650) 740-3244