SCAP/PC

A Shaped Charge Analysis Program for Personal Computer

The basic modeling and format for a shaped charge analysis program for **PC**, **SCAP/PC**, is described. The code models the motion of liner elements due to explosive loading, jet formation, jet breakup and target penetration through application of a series of analytical approximations. The structure of the code is intended to provide flexibility in shaped charge device and target configurations and in modeling techniques. The code is designed for interactive use and provides both printed and plotted output. The **PC** version 1.0 of **SCAP/PC** uses **GAE GRAPHICS/PC** namely called Universal Graphics Library **(UGL)** of **Galaxy Advanced Engineering, Inc**.

The code is written in FORTRAN 77 and originally was developed at Sandia National Laboratories (SNL) to run on VAX or mainframe computer systems. We at **Galaxy Advanced Engineering Inc. (GAE)**. Have taken steps to develop the same capability of the code for PC users. Currently the code is running on IBM/PC AT or 100% compatibles with at least 640K RAM, a 286 processor and 287 math coprocessor.

SCAP/PC program is currently running under PC/DOS or MS/Windows95/98/ME/XP and NT operating system. The program also can run under different operating system base upon customer request. **SCAP/PC** is capable of producing the plots optionally on the screen, a graphics printer, or a plotter. It uses **GAE** graphics subroutines library **UGL** and its device drivers and fonts.

The **SCAP/PC** package includes **UGL** drivers. To order, please contact our company at (650) 740-3244.