

## SMAP Version 6.0 Update Note

March 14, 2003

1. SMAP program manuals are available in PDF file format in SMAP-CD directory.
2. SMAP programs are installed under the directory C:\SMAP.
3. User Defined Material Models are available for SMAP-2D and SMAP-3D. Users can develop their own material models (maximum 5 different models). Refer to Card Group 5.3.2.4.14 thru 5.3.2.4.18 of User's Manual.
4. Program ADDRGN-2D includes an additional powerful feature which is very useful to generate meshes for complicated underground structures. This special feature modifies the existing meshes such that new structures can be easily added by simply specifying the geometries and material properties of structures. It can even generate a base mesh and then add new structures. Refer to Section 6.1.3 in ADDRGN-2D Example Problem.
5. Program TUNA supports internal pressure loads acting on the tunnel liner as well as concentrated and distributed loads on ground surface. Moment release option can be applied at the connections between segmented liners. Refer to Card Group 2 of User's Manual.
6. Input files for SMAP-S2 / 2D / 3D consist of three parts: Mesh, Main, and Post Files. A Project File contains the full directory path of Mesh, Main, and Post Files. The format of Mesh File has been changed. Refer to Section 4.3 of User's Manual.
7. PLTDS-3D (Mesh Plot) is included to plot two and three dimensional Mesh Files. It can display Node Numbers, Element Numbers, and Boundary Codes of rotations, skeleton and fluid translations. Refer to Section 3.3.4 of User's Manual.
8. Plotting program PLTDS supports additional menus: View, Numeric-Character, Draw, Draw-Style, Node and Element. Refer to Section 3.3 of User's Manual.
9. Line contours in PLTDS plots can be switched to Color-filled contours. Refer to Contour Option in View menu.