
Brief Technical Description

SAFE

SAFE is a computer program designed to perform finite element computations for geotechnical problems.

The main features of **SAFE** are listed below:

- Analysis of plane stress, plane strain or axially symmetric problems. General loading of linear elastic axisymmetric structures can be carried out using a Fourier series technique.
- Linear or non-linear behaviour.
- Gravity loading.
- Pore pressures and effective stresses are identified separately, allowing computation for drained or undrained conditions, and time dependent consolidation.
- Incremental loading and changes of material properties, permitting the formation of excavations, embankments etc.
- Intermediate results can be stored and inspected before the problem is continued further.
- Pressure (distributed) and line loading.
- Fixed or spring restraints.
- 8 noded quadrilateral elements. These can be curvilinear.
- Consolidation problems.
- Wells.
- Seepage and flow.
- Extensive graphical input options and in-built mesh generation facility.
- Wide range of graphical output and printing facilities.

Note! The Windows version of **SAFE** requires at least 64KB of RAM to run. Windows 95 and 98 are not recommended operating systems.