

1. Introduction – note about the user's guide

The user's guide contains a number of useful hints, suggestions and recommendations, which helps the user to become familiar with individual modules of the program set GEO4. By taking the user through various examples it describes how to exploit individual programs to its full potential starting with input data (pre-processing) and ending with both the graphical and text evaluation of obtained results (post-processing). It also contains a number of useful hints, which may make the user's life easier. Therefore, we recommend to begin with individual examples discussed in this tutorial.

Since most of the programs in GEO4 are similar, at least from the user's environment point of view, the manual presents only a few representatives. Chapter 2 stores most important information pertained to all programs and is written in a very detail. It enables the user to get familiar with all the details associated with this module such that it becomes simple to extend the knowledge gained from this example to other modules:

- **Basic input of construction** - used in Cantilever wall, Earth pressures, Gabion, Spread footing , Pile, Abutment, Sheeting design, Sheeting verification
- **Input of soils and rocks** – used in all GEO 4 modules
- **Text and graphic outputs** - used in all GEO 4 modules
- **Materials and standards** – used in Cantilever wall, Spread footing, Abutment, Plate
- **Verification of external stability** – used in Cantilever wall, Gabion, Sheeting verification

Chapter 3 helps you to become familiar with essential features of the module Stability of slopes. The information presented in this chapter is useful for other GEO4 programs as well:

- **Interface input 2D** - used in Beam, Rock stability, Settlement, FEM
- **Stages of construction** – used in Sheeting verification, Settlement, FEM

Next chapters are devoted merely to new and essential problems, which have not been explained yet. It is thus advisable to read the manual step by step. Individual examples described in the manual are also available on the CD-ROM.

Theory and solution procedures behind individual programs are provided in the independent **Theory manual**.