



Quickly and accurately predict soil displacement due to load

PDisp is for engineers who need software for soil displacement analysis, soil settlement calculations and soil displacement design. The program predicts displacements in a soil mass due to vertical and horizontal loads, showing the likely settlement pattern beneath and beyond the loaded area.



Redesigning Landscapes

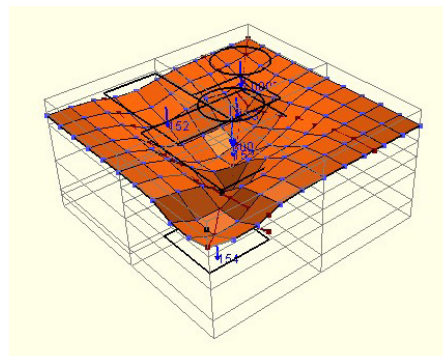
View soil displacement profiles in 3D

PDisp's 3D graphical output view clearly shows settlement patterns, and a simple interface allows users to switch easily between graphical views, input data, and tabular data. As part of our GSA suite, PDisp

enables engineers to analyse soil interaction with raft structures like basement slabs and pile caps.

How PDisp works

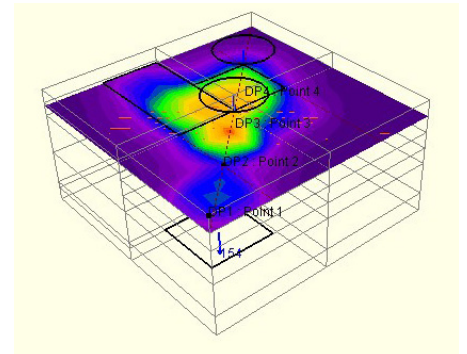
PDisp calculates the displacements and stresses, if required, within a linear elastic or non-linear soil mass. These are the stresses from uniform, normal or tangential pressure applied to rectangular and circular loaded planes.



Deflected grid

The program also enables users to calculate consolidation settlement.

When calculating stress changes within the soil, the program assumes the soil is an elastic half-space. It uses individual layer properties to calculate the vertical strain and the displacements resulting from these stresses. Oasys PDisp software predicts displacements due to both vertical and horizontal loads.



Output contours

For settlement analysis and ground movement software, contact oasys@arup.com for more information.

Benefits

- Elastic and consolidation calculation methods.
- Simulation of multiple loads in three dimensions.
- Familiar computation techniques make input quick and easy, and offers a range of analysis methods.
- A range of output capabilities, including 3D graphics, line graphs and colourful graphics allow users to extract the results they need to present results quickly, easily and efficiently.

Contact us for more information

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Connect with us

