

Elastic Solutions On Soil And Rock Mechanics

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The elastic modulus of soil, also referred to as soil modulus or Young's modulus, is a soil characteristic that measures how much it can be stretched or squeezed and must be taken into account, particularly in construction, engineering and landscaping projects. Several factors influence soil moduli and different ...

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The elasticity methods (e.g. Banerjee and Davis, 1978, Poulos, 1971, and Poulos and Davis, 1980)

include the soil continuity. Elastic solutions treat the soil as an elastic, homogeneous, isotropic half-space with a Young's modulus and Poisson's ratio. The pile is idealized as a thin beam with representative elastic properties.

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The method is an extension of the work provided in Franza and Marshall (2015b) and Haji et al. (2018a) and is based on the elastic solution of Verruijt and Booker (1996), with the following details. (1) The case of an elastic medium for incompressible soil ($\nu = 0.5$) was adopted.

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Soil Mechanics Lecture 11 Elastic Solutions to Soil Deflections and Stresses. Using Theory of Elasticity for Estimating Stresses and Deflections • Since it concerns both stress and strain/deflection, theory of elasticity can be used to estimate deflections in the elastic region

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of soil mechanics. Solutions of the problems of Kelvin, Flamant, Boussinesq, Cerrutti and Mindlin related to point load are discussed in the following sections. 8.1.2 KELVIN'S PROBLEM It is the problem of a point load acting in the interior of an infinite elastic body as shown in the Figure 8.1. Figure 8.1 Kelvin's Problem M

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