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Eric Reissner, On the
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Deformations of
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Shells, Journal of
Mathematics and
Physics, 10.1002/sapm
195938116, 38, 1-4,

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(16-35), (2016).

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This monograph presents the results of the theoretical analyses of stresses and displacements for shallow foundations subjected to various types of loads. In these analyses not only the classical models but more complex models of soils have been used, such as two-layer half-space, homogenous compressible layer of finite thickness, two-

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This paper presents analytical estimates of the behavior exhibited by curved, archlike structures under radially directed and gravitational line loads. The behavior is shown to range from elementary beam bending at one end to a state of pure

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compression at the other, and its behavior can be tracked by an arch rise parameter that is a function of the arch's semivertex angle, radius and thickness.

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...

and shallow arch curvatures are discussed below. The axial and bending

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stress resultants, N and M , consistent with Eq. 1 are expressed in terms of displacements in the following constitutive relations: $N = EA \frac{dv}{ds} - w$ $M = -EI \frac{d^2w}{ds^2} + \frac{dv}{ds}$ where E =Young's modulus and A and I =arch's cross-sectional area and the area's second ...

Stress and Displacement Estimates for Arches

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Measurements of horizontal stresses at civil and mining sites around the world show that the ratio k tends to be high at shallow depth and that it decreases at depth (Brown and Hoek, 1978, Herget, 1988). In order to understand the reason for these horizontal stress variations it is necessary to consider the problem on a much larger scale than that

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In situ and induced stresses - Rocscience Inc.

Compliant layers above sheet tips reduce surface stresses and displacements. •

Shallow-dipping sheets induce the greatest surface stresses and displacements. • The induced stress and displacement peaks do not coincide. •

Fractures form, if at all, at the stress peaks, not

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the displacement
peaks. •

Stresses and displacements in layered rocks induced by ...

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Circular

ExcavationsCircular

Excavations From

these equations we can

see that the stresses

on the boundary (i.e.

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when $r = a$) are given by: $\sigma_r = p[(1+k) + 2(1-k)\cos^2 \theta]$ $\sigma_{\theta} = 0$ $\sigma_{r\theta} = 0$ Note that the radial stresses are zero because there is no internal pressure,

Rock Engineering Practice & Design

Analytical solutions of stresses and displacements for deep circular tunnels with liners in saturated ground* Peng-fei

Li^{1,2}, Qian FANG³,

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saturated ground,
shallow or deep, with
or without air pressure,
and with or without a
gap between the
ground and the liner.

Analytical solutions of stresses and displacements for ...

The impact of shallow
tunnel construction on
the surrounding
environment is often
considered as a
symmetric half-plane

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problem with circular holes. In this research, the analytical solutions of the ground stresses and displacements of a shallow circular tunnel in an elastic half-plane under arbitrary distributed loads on ground surface were derived, based on the complex variable method.

Analytical Solution of Ground Stress Induced by Shallow

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Non-Linear Deflections of Shallow Spherical Shells

In urban environment, it is often unavoidable for shallow tunnels to be constructed adjacent to existing pile foundations. To obtain the ground

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displacements and stresses induced by shallow tunneling and existing pile foundation loads, the key procedure involves superimposing the analytical solution for shallow tunneling in green-field with the analytical solution for existing structure loads.

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