

Centrifuges in soil mechanics

A.A. Balkema - *Geotechnical centrifuge modeling*



Description: -

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Notes: Bibliography: p. 235-266.

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Tags: #THE #LCPC #CENTRIFUGE

Dynamic centrifuge modeling of concrete

The efficacy of alternative designs or seismic retrofitting techniques can compared in a repeatable scientific series of tests. Unsourced material may be challenged and removed.

GEOTECHNICAL CENTRIFUGE MODELLING AT THE UNIVERSITY OF WESTERN AUSTRALIA

Verification of the validity of assumptions made by a computational algorithm is especially important in the area of geotechnical engineering due to the complexity of soil behavior.

Centrifuges Soil Mechanics: Craig, W.H., James, R.G., Schofield, A.N.: 9789061918004: styleguide.expo.io: Books

The one to one scaling of stress enhances the similarity of geotechnical models and makes it possible to obtain accurate data to help solve complex problems such as -induced liquefaction, soil-structure interaction and underground transport of pollutants such as dense non-aqueous phase liquids. The paper presents a thorough dimensional analysis of the modelling process.

THE LCPC CENTRIFUGE

The centrifuge may be useful for scale modeling of any large-scale nonlinear problem for which gravity is a primary driving force. Centrifuge modeling is a valuable tool for studying the effects of ground shaking on critical structures without risking the safety of the public.

Dynamic centrifuge modeling of concrete

The rapid development of computational power over recent decades has revolutionized engineering analysis. Other applications include explosive cratering, contaminant migration in ground water, frost heave and sea ice. In addition, scientifically educational failures from real earthquakes come at the expense of the safety of the public.

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