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Numerical Analyses Of Fault Foundation

of the fault rupture with strip foundations. 3 Methods of numerical analysis Three different numerical analysis approaches were developed, calibrated, and tested. Three different numerical codes were used, in combination with soil constitutive models ranging from simplified to more

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sophisticated. This way, three methods were developed, each one

Numerical analyses of fault-foundation interaction

Field evidence from recent earthquakes has shown that structures can be designed to survive major surface dislocations. This paper: (i) Describes three different finite element (FE) methods of analysis, that were developed to simulate dip slip fault rupture propagation through soil and its interaction with foundation-structure systems; (ii) Validates the developed FE methodologies against ...

Numerical analyses of fault-foundation interaction ...

Field evidence from recent earthquakes has shown that structures can be designed to survive major surface dislocations. This paper: (i) Describes three different finite element (FE) methods of analysis, that were developed to simulate dip slip

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fault

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Numerical Analyses Of Fault Foundation Interaction

Numerical analyses of fault-foundation interaction. Field evidence from recent earthquakes has shown that structures can be designed to survive major surface dislocations.

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ing numerical models (with and without structure) using the Discrete Element Method (DEM) and compare the numerical result with the experimental one. DEM is considered suitable for numerical analysis of fault displacement. It is needed to be mentioned that Numerical analysis simulation has the advantage of being able

Numerical analysis of dip-slip fault displacement affected

...

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The present numerical (DPR (NUM)) and experimental (DPR (EXP)) analysis demonstrate that, for a system with a single pile (worst case scenario), the failure load can be decreased to 40% of the intact condition (IPR (NUM) analysis). In this particular case, one can also observe that the envisaged safety factor of the system (in terms of bearing capacity) is misleading in allowable design conditions.

Experimental and numerical analyses of a deep foundation ...

A three-dimensional numerical modeling was presented for analyzing the seismic differential settlement of shallow foundations on an island slope with liquefiable soil strata. Some important parameters (soil type, surcharge load, foundation location, and characteristics of ground motions) affecting the differential settlement were analyzed.

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Numerical analysis of liquefaction-induced differential ...

analyses accounting for soil strain-softening give results in accord with the physical model tests. It is ... imental testing and 3D numerical exploration of the mechanisms of dip-slip FR-SFSI with caisson foun- ... foundation relative to the fault rupture, via parameter s.

Bridge-Pier Caisson foundations subjected to normal and ...

Numerical Analyses of Fault-Foundation Interaction . By I ... to conduct a short parametric study on the interaction of idealised 2- and 5-story residential structures lying on slab foundations subjected to normal fault rupture. ... The comparison between numerical and centrifuge model test results shows that reliable predictions can be ...

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The numerical finite element which was verified by some small-scale experiments has been used to study the effects of different parameters like the magnitude of the fault offset and its location on the behaviour of both structure and foundation. The main results for our fault rupture soil-foundationstructure interaction analysis are discussed in terms of the distribution of plastic strains, the vertical displacement profile Δy , the foundation horizontal displacement, the structural drift ...

3D experimental and numerical analysis of Fault Rupture ...

Numeric Analysis of Soil-Structure Interaction at Seismic Fault Pulses. Abstraction—Numeric analysis of soil-structure systems at seismic pulse pulsations has investigated. Vibration transmissibility of the soil-structure interaction has analysed for

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super-structures with different aspect ratios positioned on assorted dirt types and different foundations have studied. Soil construction interaction with geometric nonlinearity has been considered with forward directionality and fling ...

Numerical Analysis of Soil-Structure Interaction at ...

Figure 2.4. Schematic of the numerical model: (a) three dimensional view; (b) elevation section view of the foundation, column and deck of bridge RSF8; and (c) plan view of the model of the rocking shallow foundations..... 13 Figure 2.5.

Numerical and Experimental Investigation of Bridges with ...

Experimental and numerical analyses of a deep foundation containing a single def ect ive pile Osvaldo de Freitas Neto a* , Renato Pinto da Cunha b , Paulo J. R. de Albuquerque c , Jean Rodrigo ...

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Experimental and numerical analyses of a deep foundation ...

(2019). 3D numerical analysis of piled raft foundation in stone column improved soft soil. International Journal of Geotechnical Engineering: Vol. 13, No. 5, pp. 474-483.

3D numerical analysis of piled raft foundation in stone ...

Investigating Surface Fault Rupture Hazard Mitigation for Shallow Foundations by EPS Wall Using Numerical Studies Geotechnical Earthquake Engineering and Soil Dynamics V: Seismic Hazard Analysis, Earthquake Ground Motions, and Regional-Scale Assessment June 2018

Physical and Numerical Modeling of Hybrid Foundations to ...

The numerical analysis results are in good agreement with the

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sandbox test results with regard to the propagation path of the shear zone, displacement of the pile cap, and deformation patterns of the piles. The propagation path of the fault rupture surface (FRS) for the case with a pile group is different from that for the free-field case.

Interaction between pile groups and thrust faults in a ...

In both the numerical analysis and experimental SML tests, information was obtained regarding the load capacity of the foundation, the total and differential settlements, and the rotation of the block as well as the load distribution along the pile shaft and at the pile tip. 4.1. Numerical analyses Numerical analyses were performed using the

Behavioral Evaluation of Small-Diameter Defective and ...

All the analyses simulated undrained conditions and adopted a Poisson's ratio $\nu = 0.49$ (sufficiently high to give minimal

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volumetric strains, while maintaining numerical stability), friction and dilation angles $\phi = \psi = 0$, and a uniform stiffness ratio $E/s u = 500$ (where E is the Young's modulus) throughout the soil profile. The stiffness ...

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