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Computational Modeling of Ground Structure Systems | Ahmed-Waeil Elgamal | IACMAG

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An analysis procedure for fault-soil-structure ... Next, dynamic nonlinear finite element simulations with stochastic input are performed. The procedure is used for assessment of soil liquefaction ...

## INTEGRATED PROCEDURE FOR DYNAMIC ANALYSIS OF FAULT-SOIL-STRUCTURE SYSTEMS

INTERNATIONAL ATOMIC ENERGY AGENCY, Non-linear Response to a Type of Seismic Input Motion ... test performed in France on a physical model of a conventional shear-wall structure. The results build the ...

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## Non-linear Response to a Type of Seismic Input Motion

Past earthquakes have shown that the amplification of motions due to surface-to-bedrock geology, 3D crustal structure, and topography have a major influence on seismic damage and ... strong shaking ...

## Ground Movement and Ground Shaking

If one "drives" the mass-rod system at its base, using the seismic record, and assuming a certain ... On the other hand, some authors have shown that non-linear response of a certain structure is only ...

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## Earthquake Hazards 201 - Technical Q&A

Earthquakes are frequently felt in the northern and eastern parts of Bangladesh because of its location in the junction of tectonically active Indian, Eurasian and Burmese plates which sometimes pose ...

## Seismic Risk Reduction: Research, Awareness and Preparedness

Nonlinear dynamic analyses (NDAs), incorporating advanced constitutive models to capture the response of soil elements, are increasingly used in engineering practice to



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evaluate the seismic ...

## Seminario de Geotecnia: Performance-based Assessment of Liquefaction-Induced Ground Failure: Element- & System-Level Considerations

Exploiting Seismic Waveforms introduces a range of recent developments in seismology including the application of correlation techniques, understanding of multi-scale heterogeneity and the extraction ...

## Exploiting Seismic Waveforms

Exploiting Seismic Waveforms introduces a

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range of recent developments in seismology including the application of correlation techniques, understanding of multi-scale heterogeneity and the extraction ...

## Correlation, Heterogeneity and Inversion

An area of current development is in the implementation of equivalent linear and nonlinear seismic site response models (particularly ... Shawn also has an interest in soil structure interaction, ...

## Geotechnical Earthquake Engineering: Innovative Solutions in Modeling, Design, and

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## Education

Thawing permafrost threatens to undermine the supports holding up an elevated section of the Trans-Alaska Pipeline, jeopardizing the structural integrity of one of the world's largest oil pipelines ...

## Trans-Alaska pipeline under threat from thawing permafrost

as well as of structures founded on liquefiable soil and subjected to seismic loads are performed by combining vector field simulations with nonlinear dynamic finite element analyses. The numerical ...

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## Stochastic Variability of Soil Properties: Data Analysis, Digital Simulation, Effects on System Behavior

The Geotechnical Laminar Box is designed for soil-foundation-structure interaction studies at or near full scale. The laminar box and the soil contained within deform in a manner that simulates free ...

## Geotechnical Laminar Box

The pipeline operator is repairing damage to its supports caused by a sliding slope of permafrost, and installing chillers to keep

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the ground around it frozen.

Ongoing threat: Thawing permafrost has damaged Trans-Alaska pipeline  
that governs the safety assessment and seismic design of the structure. It is the first time precariously-balanced rocks have been used to set formal design earthquake motions for a major existing ...

Dam strength determined by balanced rocks  
Based around BLADE (the £20 million Bristol Laboratories for Advanced Dynamics Engineering) and the Earthquake Engineering

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Research Centre, the group focuses on the non-linear performance ... dynamic ...

## Civil Engineering

He has extensive research experience in earthquake engineering, performance-based design, structural strengthening, optimisation, cold-formed steel (CFS) structures, energy dissipation devices, ...

## Department of Civil and Structural Engineering

He developed a two-dimensional effective stress based computational model (TARA) to

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study seismic response evaluation of soil ...  
Shamsher Prakash Foundation Citation for work  
on Dynamic Soil ...

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