

An Energy Based Excess Pore Pressure Generation Model

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a single parameter, energy-based pore pressure generation model, denoted as the GMP model. The motivation for the development of this model was to enable the use of dissipated energy as a meas-ure of soil liquefaction resistance and for development of energy based methods for design of ground improvement by soil densification.

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An empirical energy-based excess pore pressure ge neration model, denoted as the GMP model, has been developed that accurately approximates r esidual pore pressure generation in cohesionless soils...

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An Energy Based Excess Pore a single parameter, energy-based pore pressure generation model, denoted as the GMP model. The motivation for the development of this model was to enable the use of dissipated energy as a meas-ure of soil liquefaction resistance and for development of energy based methods for design of ground improvement by soil ...

An Energy Based Excess Pore Pressure Generation Model

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An Energy Based Excess Pore Pressure Generation Model

Keywords: excess pore pressure, pore pressure generation, cyclic loading, liquefaction, earthquakesABSTRACT: In 1976, J.R. Booker, M.S. Rahman, and H.B. Seed developed a computer programfor the analysis of pore pressure generation and dissipation during cyclic or earthquake loading.The pore pressure generation model used by Booker et al. (1976) is a two-

parameter stress-basedmodel.

An Energy-Based Excess Pore Pressure Generation Model for ...

General energy-based excess pore pressure generation model When dynamic loadings are propagated through soil, soil will deform in a hysteretic manner and a portion of their energy will be dissipated. During this deformation process, the dissipated energy can

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An Energy Based Excess Pore Pressure Generation Model

An energy-based model for the prediction of excess pore pressure (EPP) and evaluation of liquefaction potential in saturated sands is proposed using dissipated energy (w_d) and damage potential. The damage concept is adopted for the development of the proposed model.

Energy-based evaluation of excess pore pressure using ...

In addition to stress- and strain-based models, numerous energy-based excess pore pressure generation models have been developed. Nemat-Nasser and Shokoh (1979) established governing differential equations relating energy dissipation to the densification of dry samples and to the generation of excess pore pressures in saturated samples.

Excess Pore Pressure Generation Models for Cohesionless Soils

The authors have developed a single parameter, energy-based pore pressure generation model, denoted as the GMP model. The motivation for the development of an energy-based model is for application to projects and problems involving liquefaction for soil densification and ground improvement purposes.

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Energy-based model Energy-based model functionally relates the excess pore-pressure generated during the cyclic shearing to the energy dissipated per unit volume of soil (i.e. unit dissipated energy). As shown in Fig. 2, the enclosed area of the shear stress-strain loop is thought to be equal to the unit energy dissipated during one cycle of loading.

Energy-based Model for Wave-induced Pore-pressure Buildup ...

An energy-based model for the prediction of excess pore pressure (EPP) and evaluation of liquefaction potential in saturated sands is proposed using dissipated energy (w_d) and damage potential.

Energy-based Evaluation of Excess Pore Pressure Using ...

In addition to these two common methods, another liquefaction evaluation method, which is called the energy-based method, was proposed by Davis and Berrill under the assumption that the buildup of pore water pressure is directly related to the quantity of energy dissipated in the unit volume of soil, mainly because of the rearrangement of soil particles. In the energy-based method, liquefaction potential is evaluated by comparing the amount of dissipated energy required for triggering ...

Evaluation of the effects of initial deviatoric stress and ...

Erratum: Energy-based evaluation of excess pore pressure using damage potential (International Journal of Offshore and Polar Engineering (2008) Vol. 18 (1) (59)) Keunbo Park, Sooil Kim, Junhwan Lee , Innjoon Park

Erratum: Energy-based evaluation of excess pore pressure ...

Pore Pressure Generation Based on a large experimental database and theoretical excess pore pressure generation, Liquefaction Assessment by Energy Approach. constitutive model with an energybased excess porewater soilpore water pressure generation for use simplified coupled soilpore water pressure.

A simplified coupled soilpore water pressure generation ...

A corollary to this finding is that laboratory data from specimens tested using sinusoidal loadings can be used to calibrate the Green, Mitchell, and Polito (GMP) energy-based pore pressure generation model for use in predicting in situ pore pressures in soils subjected to nonsinusoidal loadings (e.g., earthquake loadings).

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