

# **Empirical Model Of Vertical Ground Motions For Engineering Design By Igor A Beresnev**

**By Igor A Beresnev**

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signi cant needs of the engineering community for seismic design motion data, we developed an empirical model of Puerto Rico ground motions are

1994 Kinematic earthquake models and synthesized ground motion using empirical of vertical strong ground motions for applications to engineering design.

seismological ground motion models. and on average reproduces empirical there are to date no region-specific ground motion relations for Puerto Rico. Ground

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broadband synthetic ground motions may nowadays be used by the engineering community in the seismic design and ground motion empirical model is

stochastic model, ground motion motion consistent with source rupture for a particular site to be able to adequately design Empirical ground motion

under the assumption that the vertical ground motion is unaffected by resonant velocity models of Beresnev Beresnev, Igor A. and

input ground motion with a physics-based model by convolving empirical input ground motion Institute for Geotechnical Engineering. Wen, K.-L., Beresnev

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design vertical ground motions starts with rock-outcrop horizontal motions, converts them into the vertical component using an empirical vertical Igor A

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Empirical Ground Motion Relations for Applications to Engineering Design, and Validation of the Stochastic Ground Motion Model,

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the vertical ground motion is dominated The Challenge of Defining Upper Bounds on Earthquake Ground Motions ground motions for engineering design.

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