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DETERMINATION OF DYNAMIC SHEAR MODULUS OF CLAYEY SOIL BY RESONANCE TESTING

Author(s): **Abdul Samad Khan**

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Abstract:
The objective of the research reported in this paper is to study the localized dynamic behaviour of soil under in-situ condition using a resonant testing technique and to provide information on dynamic soil property such as shear modulus. Much of the previous in-situ vibration testings were conducted with the help of a rotating-mass-oscillator in which force is a function of exciting frequency. In this research an attempt has been made to vibrate the soil-plate-oscillator system resting on clayey bed with constant amplitude of dynamic force. Attention is focused particularly on the evaluation of shear modulus from these tests using elastic half-space and lumped-parameter theories. The reasons of variation of the modulus with different mass ratios are discussed.

For full paper, contact:
Prof Muhammad Masood Rafi
Editor, NED University Journal of Research
Ph: +92 (21) 9261261-8 Ext:2277; Fax: +92 (21) 9261255
Email: NED-Journal@neduet.edu.pk
Website: http://www.neduet.edu.pk/NED-Journal