

# SPT Correlations Software (NovoSPT)



The standard penetration test (SPT) is an in-situ dynamic penetration test designed to provide information on the geotechnical engineering properties of soil.

The test procedure is described in the British Standard BS EN ISO 22476-3 and ASTM D1586



... and still SPT is the most popular geotechnical field investigation test

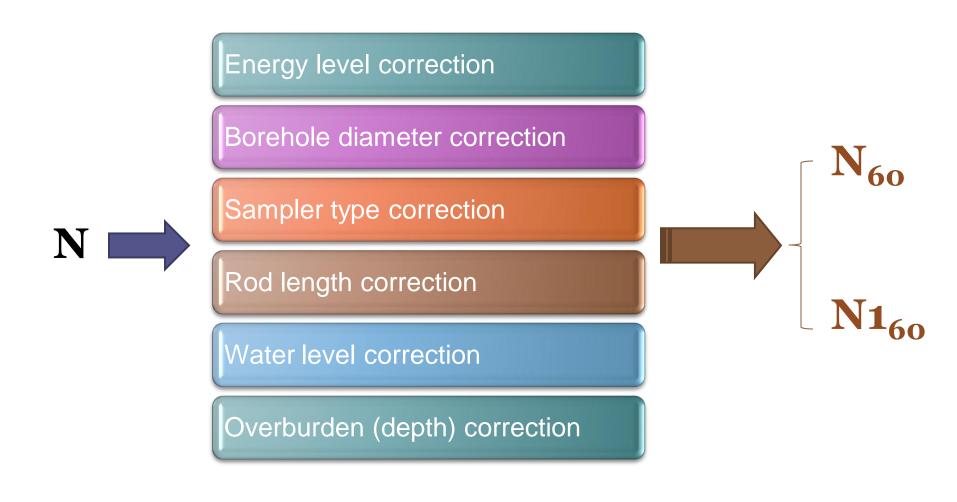


Various SPT equipments have been developed for different type of drill

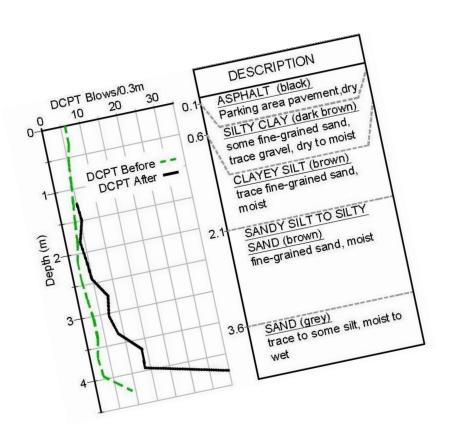
rigs and applications in different situations

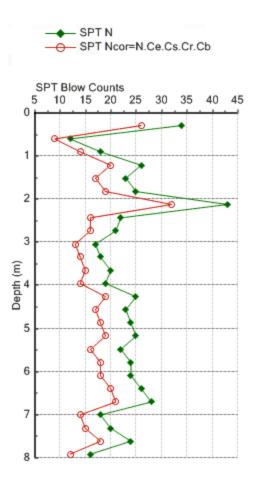


## SPT blow counts obtained from the field tests, must be corrected / normalized for:



## How N<sub>60</sub> and N1<sub>60</sub> are used in geotechnical engineering interpretations?





### $N_{60}$ and $N1_{60}$ , magic numbers!

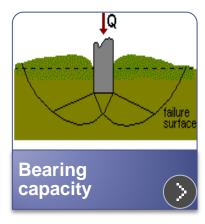




Geoscientists and researchers have carried out numerous efforts to correlate SPT blow counts to geotechnical soil properties:













#### Introduction to encyclopedia of SPT correlations

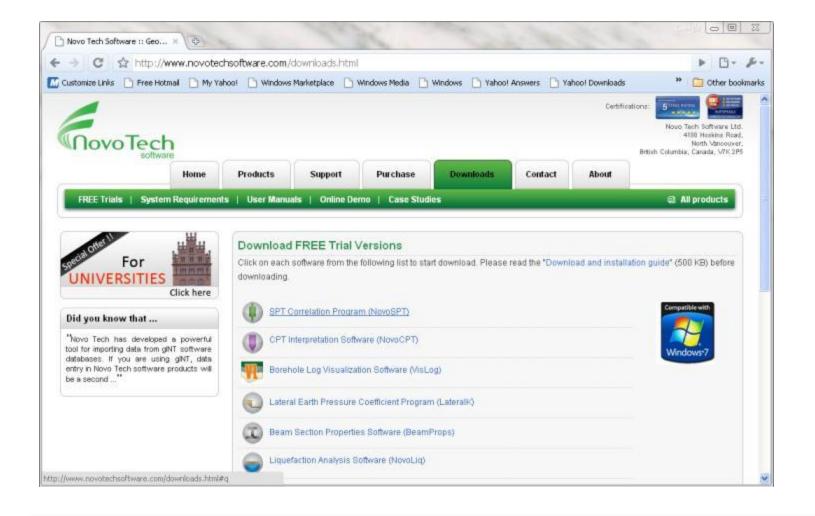
# NovoSPT (SPT Correlations Software)

Designed & developed by: **Novo Tech Software Ltd.** Vancouver, Canada

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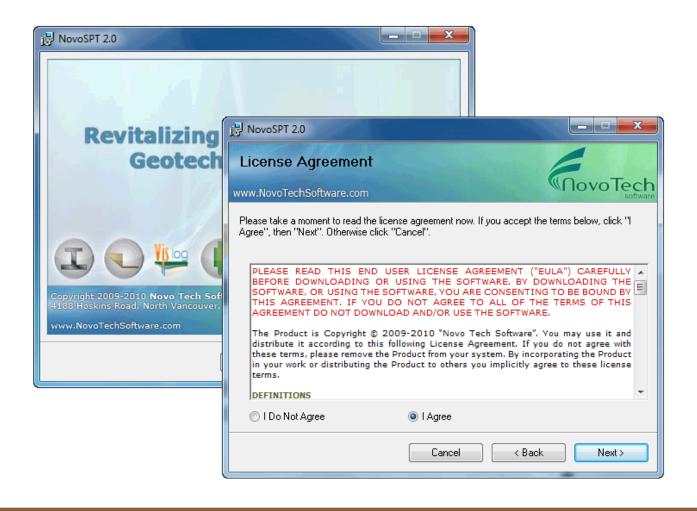


**NovoSPT Software** 



1- Easily download the software from our website

**NovoSPT Software** 

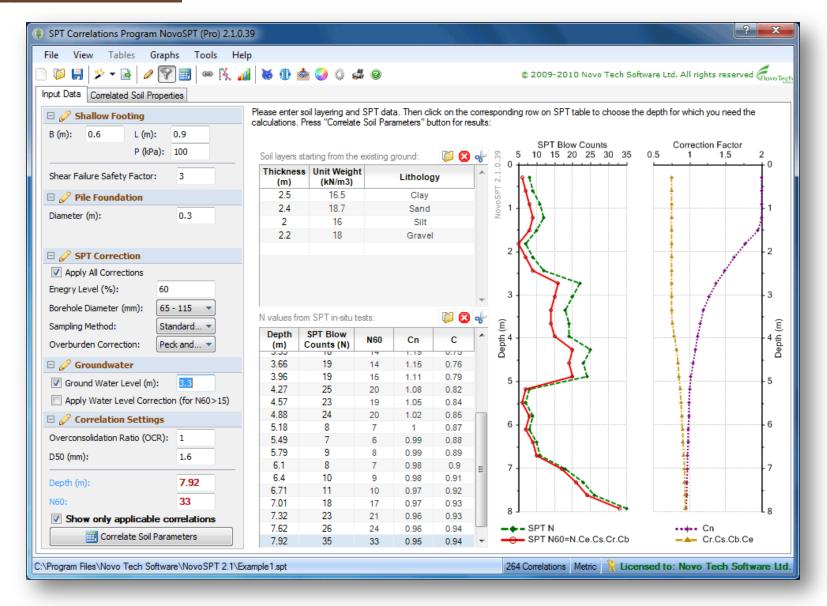


#### 2- Quick installation

#### **NovoSPT**

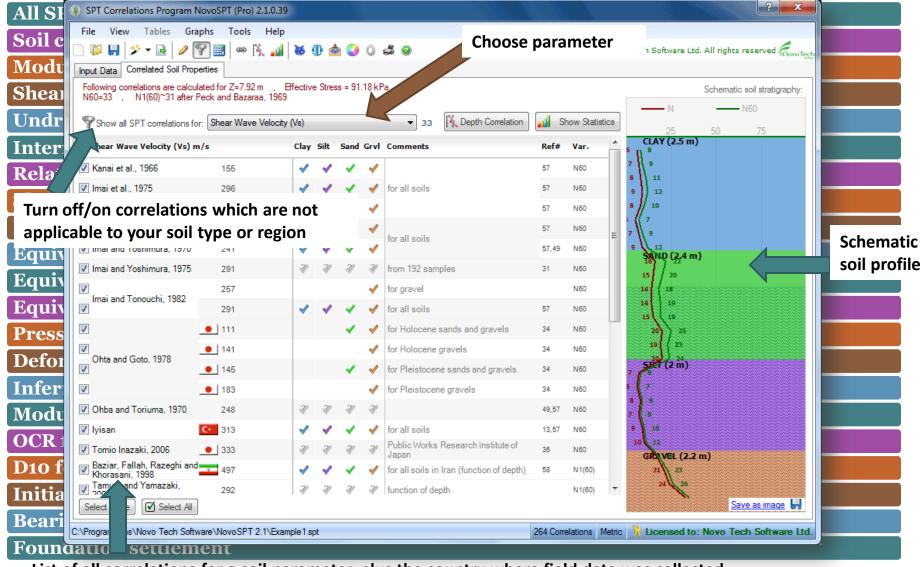
More than 260 correlations are in palm of your hand

#### **Input Data**



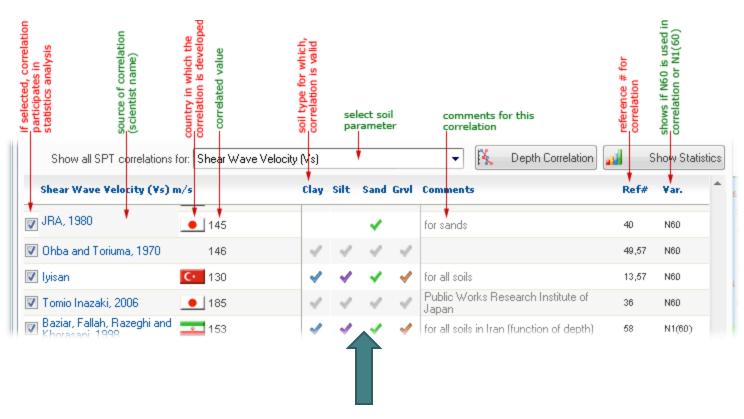
**NovoSPT Software** 

#### **Correlated Parameters**



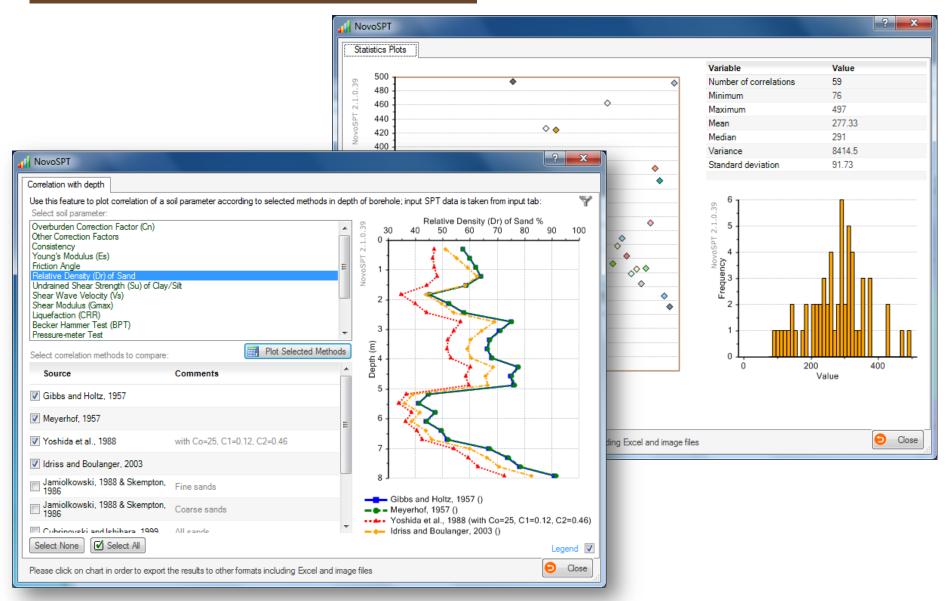
List of all correlations for a soil parameter, plus the country where field data was collected

#### Soil Type Filter (new in version 2.1)

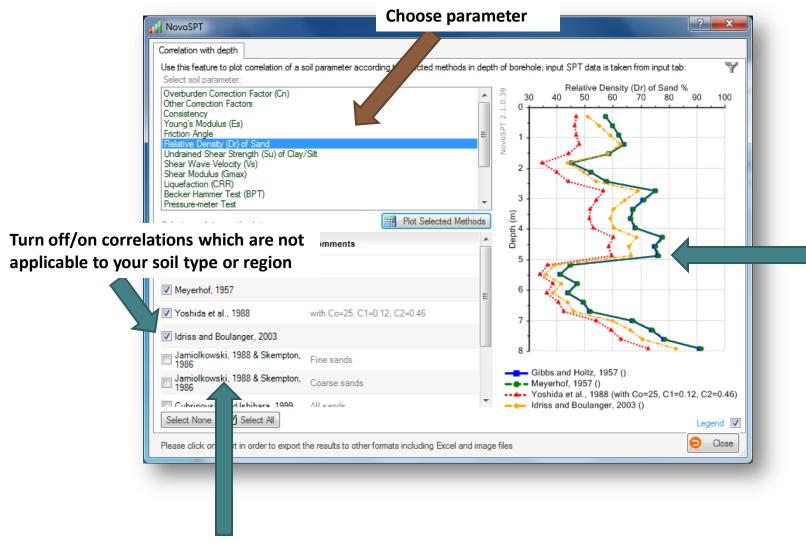


- This new feature shows each correlation is applicable to what soil type
- User can filter and show only the correlations applicable to that soil type, at each depth

#### **Correlated Parameters**

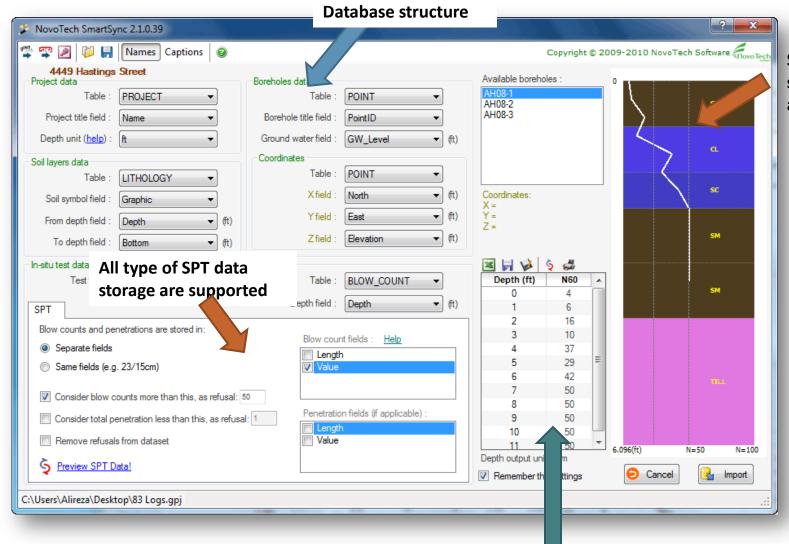


#### **Correlation Along Borehole Depth**



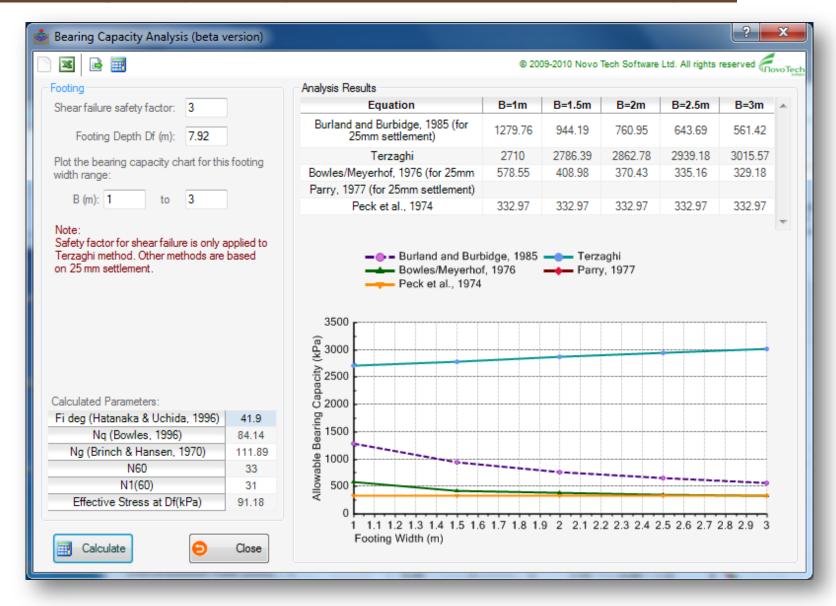
Comparison of correlated parameter along depth of borehole

#### Import SPT data from gINT files

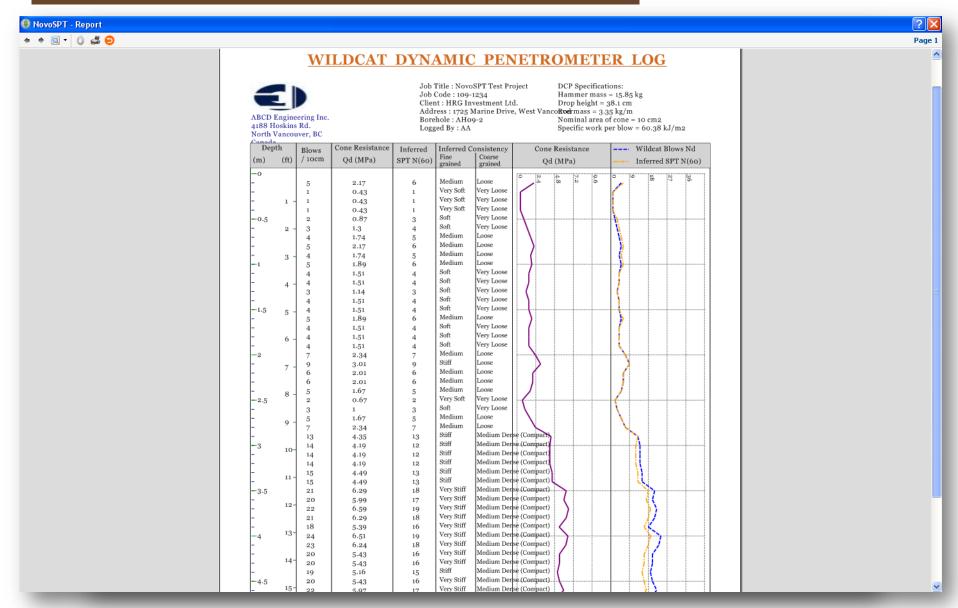


Schematic soil layers and SPT plot

### **Bearing Capacity / Settlement Analysis**

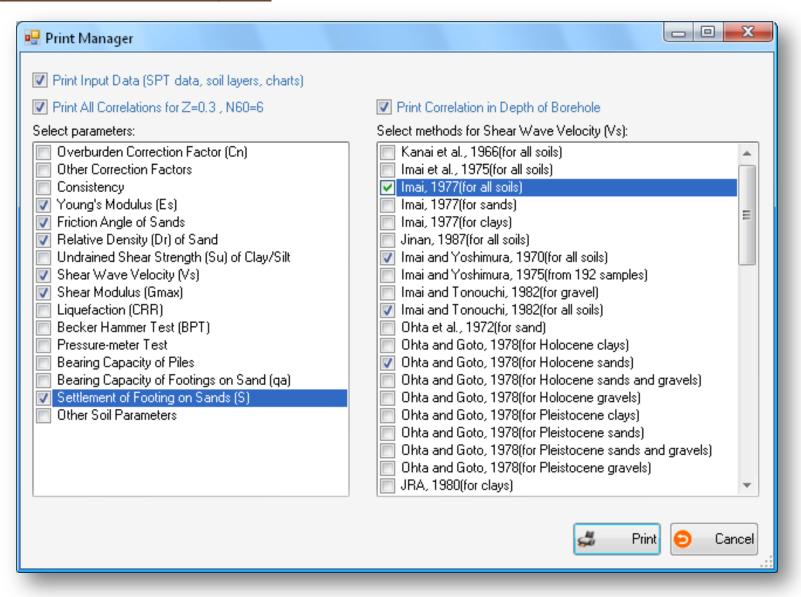


#### Wildcat Penetrometer Module

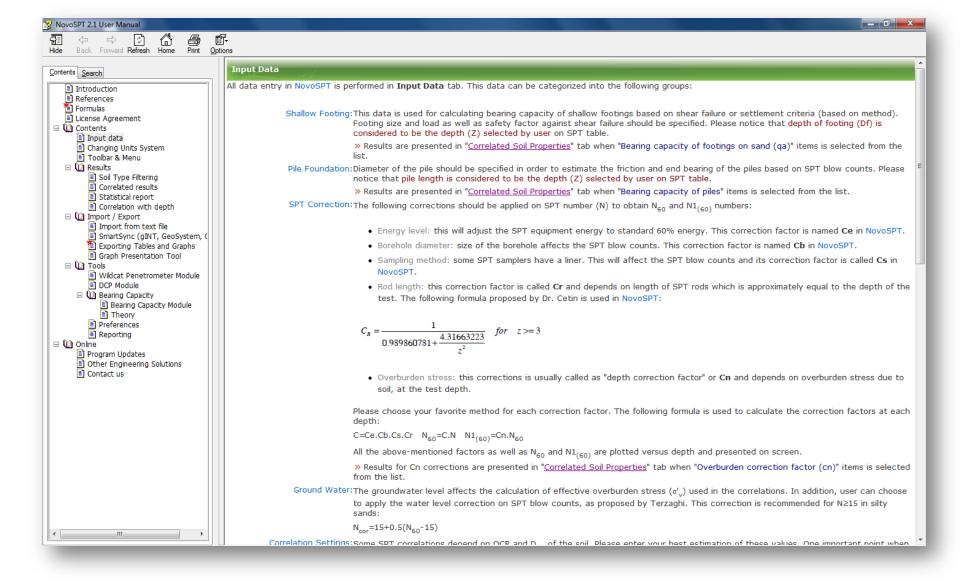


**NovoSPT Software** 

#### Report Manager



#### **User manual (Help)**



#### **Customer Testimonials**



Richard S. Kessler, PE, DGE (United States)

I am a relatively new user of NovoSPT. I have found it easy to use and useful in day-to-day Geotechnical Engineering tasks. Particularly impressive and time saving is its ability to retrieve input directly from gINT data files. Most importantly, I have found the responsiveness to support requests including those suggesting additions to the library of correlations to be exceptional

Jose Carlos Andrada



A2 Ingenieria

(Paraguay)

I downloaded and used the free trial version of NovoSPT and I must say that I really loved your software. I find it really usefull and I checked several results and they seem to be accurate, so I must congratulate you for this great software

Nc

Miles Davis



Quantum Geotechnical Ltd.

(United Kingdom)

Most excellent, many, many thanks for NovoSPT. It works perfectly. This is a great bit of software. I shall say to you what I have said to Salvatore (president of gINT Software) on a number of occasions, if you offer tech support like that you'll go far. It was nicely unexpected to get a reply at all, let alone have the problem solved within a day. Hats off to you!

#### the es

#### Our other software solutions:



Cone Penetration Test (CPT) Interpretation Software (NovoCPT): for interpretation of CPTu including liquefaction analysis, foundation settlement analysis and pile bearing capacity analysis (LCPC) tools.



**Liquefaction Analysis Program (NovoLiq):** based on 10 different methods for calculating Cyclic Resistance Ratio (CRR), with more than 55 options for other formulas, including post-liquefaction lateral displacement and settlement ...



**VisLog:** This powerful program is designed for visualizing geotechnical/geological borehole logs and automatically drawing soil profiles. 3D environment and easy zoom and rotation features make it so easy to work with VisLog...



**Beam Section Properties (BeamProps):** This software is used to calculate beam section properties such as area, moment of inertia, radius of gyration, etc. for more than 25 sections and shapes...



**SMTP:** is a comprehensive solution for processing soil mechanics laboratory tests such as sieve test, Aterberg limits, moisture and density, direct shear, triaxial, compaction, permeability, etc and designing borehole logs.



**LateralK:** Calculating lateral earth ressure coefficient program in static (Rankine/Coulomb) and earthquake (Mononobe/Okabe) conditions ...



**Peysanj:** A complete set of geotechnical modules for bearing capacity and settlement of shallow footings, pressure-meter test, plate load test, liquefaction analysis, lateral earth pressure coefficients, and more ...



#### Thank you for watching

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