

# Geotechnical Engineering

## Foundation Design Cernica

CEEN 341 - Lecture 25 - Bearing Capacity Part I - CEEN 341 - Lecture 25 - Bearing Capacity Part I 38 minutes - This lecture covers the basic theory of bearing capacity and how **geotechnical engineers**, predict it for basic shallow **foundations**.  
Foundations (Part 1) - Design of reinforced concrete footings. - Foundations (Part 1) - Design of reinforced concrete footings. 38 minutes - Shallow and deep **foundations**. Types of footings. Pad or isolated footings. Combined footings. Strip footings. Tie beams. Mat or ...  
AGERP 2021: L6.1 (Design of Foundations) | Emeritus Professor Harry Poulos - AGERP 2021: L6.1 (Design of Foundations) | Emeritus Professor Harry Poulos 1 hour, 35 minutes - This video is a part of the second edition of "Lecture series on Advancements in **Geotechnical Engineering**,: From Research to ...  
Keyboard shortcuts  
How to Calculate the Bearing Capacity of Soil? Understanding Terzaghi's bearing capacity equations - How to Calculate the Bearing Capacity of Soil? Understanding Terzaghi's bearing capacity equations 9 minutes, 23 seconds - In this video I explained the CONCEPTS of Terzaghi's bearing capacity equations to understand how to calculate the bearing ...  
Shallow Foundations  
Introduction  
Typical Allowable Bearing Values  
Bearing Capacity Equations  
Pressure Distribution in Soil  
Intro  
Eccentric Loading (N & M)  
Components of Bearing Capacity  
Spherical  
Videos  
Types of Foundations  
Basics  
Tie Beam  
Drawing  
Transcona failure  
Subtitles and closed captions  
Effective Stress  
Geotechnical Analysis of Foundations - Geotechnical Analysis of Foundations 10 minutes, 6 seconds - Our understanding of **soil**, mechanics has drastically improved over the last 100 years. This video investigates a **geotechnical**, ...  
Search filters  
Design Considerations  
Field bearing tests  
General  
General Shear Failure  
Design Steps of Pad Footings  
Playback  
Example Problem  
Check for Punching Shear  
Introduction  
Factors of Safety  
Check for Direct Shear (One-Way Shear)  
Design for Moment (Reinforcement)  
Reinforcement in Footings  
Local vs General Shear  
Geotechnics - Foundation Design - Geotechnics - Foundation Design 1 minute, 3 seconds - The **Foundation Design**, module in FEM-**Design**, helps you perform **geotechnical**, checks of complete 3D structures, or just frames.  
Bearing Capacity Theory

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