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Engineering nptel appropriately simple!

## SETTLEMENT COMPUTATIONS

PRACTICE PROBLEM 3 Mod-01 Lec-01

FOUNDATION TYPES Week 1: Lecture 1:

Introduction Thermodynamics and Heat

transfer Prof S Khandekar How to Design

Pad Footings under Eccentric Loading (N

and M)?

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Bearing Capacity Of Soil | Bearing capacity

of Different types of soil | Soil Settlement

Context \u0026 Overview Shallow

Foundation - 02 Example of Terzaghi's

Equation What is Geotechnical

Engineering? Example problem on How to

determine ultimate bearing capacity of soil

Modulus of Subgrade Reaction of Soil

(Bowles Approach and Basic Approach)

Soil Mechanics and Foundation Engineering

Book By DR. K.R. ARORA Review

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Geotechnics - How to obtain soil

parameters / property - Geotechnical design

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of retaining structures  
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NPTEL Online Learning Material -  
Introduction Practice Problem 2 4-D Lab  
~~Consolidation~~ TERZAGHI ' S BEARING  
CAPACITY THEORY IN DETAIL  
Practice Problem 1

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Lecture 21 : Settlement of Foundation  
(Contd.) WATER FLOW THROUGH  
SOILS ~~TERZAGHI ' S BEARING  
CAPACITY THEORY~~ Advanced

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Exploration; Shallow ...

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soil exploration, details of shallow and deep  
foundations, retaining walls.

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ENGINEERING-1 INTRODUCTION  
Mat foundations are primarily shallow foundations. They are one of four major types of combined footing (see figure 5.1a). A brief overview of combined footings and the methods used to calculate their

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dimensions follows: Figure 5.1 (a)  
Combined footing; (b) rectangular  
combined footing

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ENGINEERING-1 a. Determine the area of

the foundation,  $A = \frac{P}{q_{all}}$  Where  $P = \sum P_i$   
all (net) [5.1] Where  $q_{all} = q_{net} + c$   
= column loads all (net) = net  
allowable soil bearing capacity b. Determine  
the location of the resultant of the column  
loads. From figure 5.1b.

Module 5 (Lectures 17 to 19) MAT  
FOUNDATIONS  
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The course "Advanced Foundation Engineering" will cover various aspects of foundation engineering including soil exploration, details of shallow and deep.

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footings - NPTEL ADVANCED FOUNDATION ENGINEERING-1 Module ...

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## Advanced Foundation

Since 2012, he is involved in teaching various civil engineering core courses, such as Geology & Soil Mechanics, and Advanced Foundation Engineering for UG and PG students. His expertise includes seismic soil-foundation interactions, cyclic behaviour of geomaterials and finite element analysis of complex dynamic problems.

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