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FOUNDATION TYPES

Week 1: Lecture 1:

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Introduction

Thermodynamics and

Heat transfer Prof S

Khandekar How to

Design Pad Footings

under Eccentric

Loading (N and M)?

Bearing Capacity Of

Soil | Bearing

capacity of Different

types of soil | Soil

Settlement Context

/u0026 Overview

~~Shallow Foundation~~

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~~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
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Engineering Book By

DR. K.R. ARORA

Review

Geotechnics - How to
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parameters /

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Geotechnical design
of retaining

structures

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Learning Material -

Introduction Practice

Problem 2 1-D Lab

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Consolidation

TERZAGHI ' S
BEARING CAPACITY
THEORY IN DETAIL

Practice Problem 1

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WATER FLOW
THROUGH SOILS

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Bangalore; Available
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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 dimensions follows:

Figure 5.1 (a)

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Foundation;
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Combined footing; (b)
rectangular combined
footing

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Geotechnical Engineering

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ENGINEERING-1 a.

Determine the area of
the foundation, :

$$= 1 +$$

$$\text{all (net) } [5.1]$$

Where $1 +$

$2 =$ column loads

$\text{all (net)} = \text{net}$

allowable soil bearing

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capacity b. Determine the location of the resultant of the column loads. From figure 5.1b.

Module 5 (Lectures 17 to 19) MAT

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cover various aspects
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details of shallow and deep foundations, retaining walls.

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INTRODUCTION Mat

foundations are

primarily shallow

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types of combined

footing (see figure

5.1a). A brief

overview of combined

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footings and the methods used to calculate their dimensions follows:

Figure 5.1 (a)

Combined footing; (b) rectangular combined footing

footings - NPTEL

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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

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behaviour of
geomaterials and
finite element
analysis of complex
dynamic problems.

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
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Engineering audience.

The comprehensive review of all the theories required for practice of foundation engineering has been presented in this book. The book includes topics like Soil Exploration, Shallow Foundation, Design and Analysis of Mat foundation, Earth Pressure, Sheet

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Pile Wall, Braced Cuts, Drilled Piers and Caissons, Pile Foundation, Machine Foundations, Geotextiles Reinforced Earth and Ground Anchors. The case studies have been included with chapters for better understanding of topics. Key Features:  Provides full coverage

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of theories of foundation engineering along with theoretical and practical oriented approach of design ; Design aspects which covers some ground improvement methodologies like Geocell foundation etc. has also been presented ; Individual chapters on advanced

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consideration for
foundations of
offshore structures,
structural design of
foundation,
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problematic soil,
earthquake effect on
foundation system
and ground
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techniques ; Case
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examples including
design and analysis of
MAT foundation
using latest design
software ; Practical
and theoretical
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Properties Of Soils
And Makes Extensive
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Examples, Which Are

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The Principles Of Soil

Mechanics In

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Units, Side By Side

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Who Are Less

Conversant With The
SI Units, Gain

Familiarity With This
System Of

International Usage.

Inclusion Of About

160 Short-Answer

Questions And Over

400 Objective

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Question Bank Makes

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As Well As For Those
Preparing For Gate,
UpSC And Other
Qualifying
Examinations. In
Addition To Serving
The Needs Of The
Civil Engineering
Students, The Book
Will Serve As A
Handy Reference For
The Practising
Engineers As Well.

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Developments in

Geotechnical

Engineering, Vol. 17:

Elastic Analysis of

Soil-Foundation

Interaction focuses on

the analysis of the

interaction between

structural

foundations and

supporting soil media.

The publication first

elaborates on soil-

foundation

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interaction problems;
idealized soil
response models for
the analysis of soil-
foundation

interaction; and plane-
strain analysis of an
infinite plate and an
infinitely long beam.

Discussions focus on
three-dimensional
effects in the infinite
beam problem, elastic
models of soil

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Foundation, foundation and interface behavior, and elastic-plastic and time-dependent behavior of soil masses. The manuscript then ponders on the analysis of beams of finite length, axisymmetric three-dimensional problem of an infinite plate, and analysis of finite

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plates. Concerns

cover axisymmetric loading of a circular plate, analysis of

rectangular plates, axisymmetric three-dimensional problem

of the infinite plate, modifications of the thin plate theory,

finite beams on a two-parameter elastic medium, and finite

beams on an elastic

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Foundation. The book tackles the determination of soil parameters, experimental investigations and field studies, as well as experimental investigations and field studies and measurement and interpretation of parameters encountered in the

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idealized soil models
in relation to soil-
foundation behavior.

The publication is a
valuable reference for
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interested in the
elastic analysis of soil-
foundation
interaction.

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on Advances in

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a range of durable,
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from industrial

wastes and by-

products. The topics

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innovative structures,
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concrete by using
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environmental
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development,
recycling solid wastes
as road construction
materials, emerging
sustainable practices
in highway
pavements
construction, plastic
roads, pavement

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Foundation analysis and design,
application of
geosynthetics for
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green tunnel
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techniques and
municipal solid waste
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scope of contents, the book will be useful for researchers and professionals working in the field of civil engineering and especially sustainable structures and green buildings.

The fundamental mathematical tools needed to understand machine learning

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include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science

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students, or
professionals, to
efficiently learn the
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these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to

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machine learning
texts. For those
learning the
mathematics for the
first time, the
methods help build
intuition and practical
experience with
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concepts. Every
chapter includes
worked examples and
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illustrations, along
with developments in
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literature. Among the
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stresses in soil mass,
pore water pressure

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due to undrained loading, permeability and seepage, consolidation, shear strength of soils, and evaluation of soil settlement. The text presents mathematical derivations as well as numerous worked-out examples.

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