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NPTEL - ADVANCED FOUNDATION ENGINEERING-I REFERENCES
1. American Society of Civil Engineers (1959). "Timber Piles and Construction Timbers," Manual of Practice, No. 17, American Society of Civil Engineers, New York.

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NPTEL - ADVANCED FOUNDATION ENGINEERING-I PROBLEMS 1.
A flexible circular area is subjected to a uniformly distributed load of 3000 lb/ ft². The diameter of the loaded area is 9.5 ft. determine the stress increase in a soil mass at a point located 7.5 ft below the center of the loaded area.

ADVANCED FOUNDATION ENGINEERING-I PROBLEMS 1 ... - NPTEL ...

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NPTEL - ADVANCED FOUNDATION ENGINEERING-1 a. Determine the area of the foundation, A : $A = A_1 + A_2$ all (net) [5.1]
Where $A_1 + A_2 =$ column loads all (net) = net allowable

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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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NPTEL - ADVANCED FOUNDATION 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 dimensions follows: Figure 5.1 (a) Combined footing; (b) rectangular combined footing

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

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Foundation Engineering Lecture Series on Foundation Engineering by Dr.N.K.Samadhiya and Dr.Priti Maheshwari Department of Civil Engineering, IIT Roorkee. Mod-1 Lec-1 Shallow Foundation

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deep foundations, retaining walls.

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page 1 nptel - advanced foundation engineering-i module 4 lecture 13 to 16 shallow foundations: allowable bearing capacity and settlement topics 13.1 introduction 13.2 vertical stress increase in a soil mass caused by foundation load 13.3 stress due to a concentrated load 13.4 stress due to a circularly loaded area 13.5 stress below a rectangular area 13.6 average vertical stress increase ...

Allowable Bearing Capacity & Settlement, Advanced ...

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INTRODUCTION Vertical or near vertical slopes of soil are supported by retaining walls, cantilever sheet- pile walls, sheet-pile bulkheads, braced cuts, and other similar structures.

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