

## Advanced Foundation Engineering Nptel

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Advanced Foundation Engineering - (Civil Engineering course from IIT Kharagpur) NPTEL Lecture Videos by Dr. Kousik Deb from IIT Kharagpur. Click on any Lecture link to view that video. These videos are provided by NPTEL e-learning initiative. "Advanced Foundation Engineering" - Video Lectures

### Advanced Foundation Engineering Video Lectures - Nptel

NPTEL – ADVANCED FOUNDATION ENGINEERING-I PROBLEMS 1. A flexible circular area is subjected to a uniformly distributed load of 3000 lb/ ft 2. 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 ...

Advanced Foundation Engineering by Dr. Kousik Deb, Department of Civil Engineering, IIT Kharagpur. For more details on NPTEL visit <http://nptel.ac.in>.

### Mod-01 Lec-01 Introduction

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.

### NPTEL - ADVANCED FOUNDATION ENGINEERING-I ... - MAFIADOC.COM

NPTEL - ADVANCED FOUNDATION ENGINEERING-1 a. Determine the area of the foundation,  $q_{net} = \frac{Q_1 + Q_2}{A}$  all (net) [5.1] Where  $Q_1 + Q_2 =$  column loads  $q_{net}$  all (net) = net allowable soil bearing capacity 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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### Advanced Foundation Engineering online course video ...

NPTEL - ADVANCED FOUNDATION ENGINEERING-1 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. The proper design of those structures required estimation of lateral earth pressure, which is a function of several factors, such as (a) type and amount of wall movement ...

### lecture20 - NPTEL ADVANCED FOUNDATION ENGINEERING-1 Module ...

NPTEL - ADVANCED FOUNDATION ENGINEERING-1 The American Concrete Institute Committee 336 (1988) suggested the following method for calculating the differential settlement of mat foundations. According to this method, the rigidity factor ( $\alpha$ ) is calculated as  $\alpha = \frac{E_p}{E_s} \frac{B}{L}$  Where [5.17]

### Module 5 (Lectures 17 to 19) MAT FOUNDATIONS - NPTEL ...

NPTEL Syllabus Advanced Foundation Engineering Video course COURSE OUTLINE The course "Advanced Foundation Engineering" will cover various aspects of foundation engineering including soil exploration, details of shallow and deep foundations, retaining walls.

### Advanced Foundation Engineering - Video course Civil ...

Center for Advanced Study, University of Illinois at Urbana-Champaign Recommended for you 1:20:20 Professor Eric Laithwaite: Magnetic River 1975 - Duration: 18:39.

### Foundation Engineering by Prof. Kousik Deb

foundation piles, conductors, risers, and other appurtenances. A jacket foundation includes leg piles which are inserted through the legs (Figure 1) and connected to the legs either at the top, by welding or mechanical means, or along the length of the legs, by grouting. Figure 1. Jacket showing driving of pile through jacket leg

### Offshore Structure Design And Construction

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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### Civil - Advanced Foundation Engineering - YouTube

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### Mod-01 Lec-17 Pile Foundation - Load Carrying Capacity I

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