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Foundation Engineering 1 / Chapter 1 Foundations: Types and Considerations Dr. Adnan A. Basma 2 of 6 DESIGN CONSIDERATIONS To perform satisfactorily, foundations must carry the loads (and moments) and have two main characteristics: 1. Be safe against overall shear failure (Bearing Capacity Failure). 2. Not undergo excessive displacement (Settlement).

CHAPTER 1 INTRODUCTION TO FOUNDATIONS

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Topics include: site investigation (with emphasis on in situ testing), shallow (footings and rafts) and deep (piles and caissons) foundations, excavation support systems, groundwater control, slope stability, soil improvement (compaction, soil reinforcement, etc.), and construction monitoring.

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Dr. Garcia-Syngros is an Adjunct Professor at the Civil Engineering Department of the City College of New York, and a lecturer at Columbia University in the City of New York teaching advanced foundation engineering and earthquake engineering. Dr.

SEAONY - Events

Lecture Series on Foundation Engineering by Dr.N.K.Samadhya and Dr.Priti Maheshwari Department of Civil Engineering, IIT Roorkee. Mod-1 Lec-1 Shallow Foundation Mod-1 Lec-2 Shallow Foundation

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