

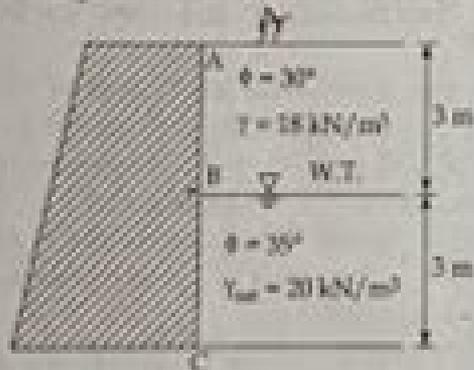
$C = 15 \text{ kN/m}^2$
 $\gamma = 18.15 \text{ kN/m}^3$
 $\gamma_{sat} = 23 \text{ kN/m}^3$
 $N_c = 4$
 $N_q = 8$
 $N_{\gamma} = 15$

Determine ultimate bearing capacity of soil if:

- water table is at base of footing
- water table is at ground level

4. a) Write down the assumptions made by Terzaghi in his bearing capacity theory. Explain the Mohr's stress circle with neat sketch. [4+4]

b) Find the active earth pressure and its reaction for the retaining wall shown below. [8]



SOIL MECHANICS

Examination 2073 Regular/Back

Time: 3 hrs.

Full marks: 80
Pass marks: 32

4. a) Define consolidation and write the types of consolidation.
 b) Following are the result of a laboratory specimen? Dry mass of specimen is 125 gm, height of the test is 2.54 cm, $C_c = 2.75$ and area of

| Effective pressure (kN/m ²) | Height of the specimen (cm) |
|---|-----------------------------|
| 0 | 2.54 |
| 50 | 2.48 |
| 100 | 2.42 |
| 200 | 2.36 |
| 400 | 2.30 |
| 800 | 2.24 |

- How Mohr's circle is useful in determining failure planes? Explain.
 - Explain Rankine's theory for active earth pressure.
- What are the types of foundation? Write on foundation.
 - A strip footing 2 m wide is supported on 1.3 m below the ground surface. The soil $C = 15 \text{ kN/m}^2$, $\gamma = 18.15 \text{ kN/m}^3$, $N_c = 4$, $N_q = 8$. Determine ultimate bearing capacity of the soil if water table is at base of footing.

Civil Engineering Soil Mechanics 4th Sem

Purdue University



Civil Engineering Soil Mechanics 4th Sem:

Geotechnical Engineering Education and Training I Antonescu, I Manoliu, N Radulescu, 2020-09-10 This volume contains papers and reports from the Conference held in Romania June 2000 The book covers many topics for example place role and content of geotechnical engineering in civil environmental and earthquake engineering *Education and Training in Geo-Engineering Sciences* Iacint Manoliu, Nicoleta Radulescu, 2008-05-20 Covering a broad range of topics curricular matters in geo engineering education teaching learning and assessment in geo engineering education challenges in geotechnical engineering education issues in education and training in Engineering Geology the link university professional world in geo engineering this book will be invaluable to university teachers academics and professionals involved in education and training in geo engineering sciences **General Catalog** Iowa State University, 1906 **Annual Catalog** College of Hawaii, 1929 **Undergraduate Catalog** North Carolina State University, 1975 Which Degree?, 1981 **Annual Catalog** Mississippi Agricultural and Mechanical College, Mississippi State College, Mississippi State University, 1904 Directory of Published Proceedings, 1991 *Iowa State College of Agriculture and Mechanic Arts, Division of Agriculture* Iowa State College of Agriculture and the Mechanical Arts. Division of Agriculture, Iowa State College of Agriculture and the Mechanical Arts. Division of Engineering, 1907 **Advances in Civil Engineering II** Xiang Dong Zhang, Hong Nan Li, Xia Ting Feng, Zhi Hua Chen, 2012-12-13 Selected peer reviewed papers from the 2nd International Conference on Civil Engineering and Transportation ICCET 2012 October 27 28 2012 Guilin China *Annual Catalog ...* University of Idaho, 1912 *Announcements for the Year ...* Purdue University. Schools of Engineering, 1952 **Catalogue** Kansas State Agricultural College, Kansas State College of Agriculture and Applied Science, Kansas State University, 1971 **Index of Conference Proceedings Received**, 1979 **Catalogue** Swarthmore College, 1946 Annual Catalogue Massachusetts Institute of Technology, 1929 Recent Research and Developments in Cold-formed Steel Design and Construction Wei-wen Yu, Joseph H. Senne, 1982 **The University of Virginia Record** University of Virginia, 1989 The Annual Catalogue of Purdue University Purdue University, 1950 **Constructor**, 1957 Vols for 1969 71 include the Constructor annual

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