

- (b) Explain field applications of geotechnical engineering.
- (c) Discuss the spacing and depth of borings for soil investigation for shallow and deep foundations.
- (d) Define M.D.D. and O.M.C. and explain in detail.
- (e) Draw a neat sketch of plate load test and load settlement curve.
- (f) State and define Atterberg's limits of soil consistency.

4. Attempt any FOUR of following :

16

- (a) Explain with figure laboratory determination of shear strength of soil with direct shear test.
- (b) In a constant head permeameter diameter of a soil sample was 4 cm and length 14 cm under a constant head of 25 cm. The discharge was found to be 80 cc in a 10 minutes. Calculate coefficient of permeability.
- (c) How do you determine water content of soil ? Explain.
- (d) What is CBR value ? Draw CBR test setup and name the parts.
- (e) What is meant by safe bearing capacity of soil ? Explain.
- (f) What are the effects of water table on bearing capacity of soil ?

5. Attempt any FOUR of following :

16

- (a) Explain disturbed and undisturbed soil samples for lab testing.
- (b) A soil sample has a porosity of 42% and specific gravity of solids 2.70, determine void ratio and dry density.
- (c) Define Laminar flow, Turbulent flow, flow net and coefficient of permeability.
- (d) Draw phase diagram for dry soil and fully saturated soil.
- (e) Differentiate proctor test and modified proctor test as per IS 2720.
- (f) Derive the following equation :

$$\rho_b = \frac{(G + e, Sr)}{(1 + e)} \rho_w$$

# Fourth Semester Civil Engineering Technical Education Board

**American Council on Education**



#### **Fourth Semester Civil Engineering Technical Education Board:**

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 **STRUCTURAL ANALYSIS** DAS, MADAN MOHAN, SAIKIA, MIMI DAS, DAS, BHARGAB MOHAN, 2011-05-24 Intended as a textbook for the undergraduate students of civil engineering this book covers the complete syllabi of two courses in theory of structural analysis taught to the engineering students in third and fourth semesters The book is organised in two parts Part I for the third semester course and Part II for the fourth semester course It covers all the important topics such as bending moment and shear force diagrams for statically determinate beams analysis of statically determinate structures relation between curvature slope and deflection of beams Castiglione's theorem Macaulay's method analysis of fixed and continuous beams Girder bridge and retaining walls **KEY FEATURES** 1 Numerous worked out examples in each and every chapter 2 Step by step derivations of equations 3 Review Questions and Problems to sharpen the problem solving skills *Bulletin - Engineering Extension Department* Purdue University. Department of Engineering Extension, 1928 **Higher Technical Education in Foreign Countries** Anna Tolman Smith, Wacław Stanisław Jesien, 1917 **National Higher Technical Education in Indonesia** Kenneth Lee Neff, 1961 *Civil Technology* United States. Division of Vocational and Technical Education, 1966 Engineering Education, 1928 Higher Education in France Abul Hassan K. Sassani, Alina Marie Lindegren, Edith Kahler, Elsa Schneider, Franklin Dunham, Gertrude (Golden) Broderick, Grace (Stevens) Wright, United States. Office of Education, Ward W Keesecker, Ronald Redvers Lowdermilk, 1952 **Highway Safety Occupational Program Development Guide. Final Report** Ronald D. Daugherty, 1971 The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services American Council on Education, 1984 **The 1980 Guide to the Evaluation of Educational Experiences in the Armed Services: Army** American Council on Education, 1980 **The 1980 Guide to the Evaluation of Educational Experiences in the Armed Services: Coast Guard, Marine Corps, Navy, Dept. of Defense** American Council on Education, 1980 **The Journal of Engineering Education**, 1928 1977 H. M. R. Keys, D. J. Aitken, 2020-05-18 No detailed description available for 1977 *Resources in Education*, 1998 1983 D. J. Aitken, 2020-05-18 No detailed description available for 1983 1986 International Association of Universities, Franz Eberhard, Ann C. Taylor, 2020-10-26 No detailed description available for 1986 The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services, 1984 **Advances in Statistical Control, Algebraic Systems Theory, and Dynamic Systems Characteristics** Chang-Hee Won, Cheryl B. Schrader, Anthony N. Michel, 2010-07-08 Life has many surprises One of the best surprises is meeting a caring mentor an encouraging collaborator or an enthusiastic friend This volume is a tribute to Professor Michael K Sain who is such a teacher colleague and friend On the beautiful fall day of October

27 2007 friends families colleagues and former students gathered at a workshop held in Notre Dame Indiana This workshop brought together many people whose lives have been touched by Mike to celebrate his milestone 70th birthday and to congratulate him on his contributions in the fields of systems circuits and control Mike was born on March 22 1937 in St Louis Missouri After obtaining his B S E E and M S E E at St Louis University he went on to study at the University of Illinois at Urbana Champaign for his doctoral degree With his Ph D degree complete he came to the University of Notre Dame in 1965 as an assistant professor He became an associate professor in 1968 a full professor in 1972 and the Frank M Freimann Chair in Electrical Engineering in 1982 He has remained at and loved the University of Notre Dame for over 40 years Mike also held a number of consulting jobs throughout his career Most notably he consulted with the Energy Controls Division of Allied Bendix Aerospace from 1976 to 1988 and the North American Operations branch of the Research and Development Laboratory of General Motors Corporation for a decade 1984 1994 **American Universities and Colleges** James J. Murray, 2021-06-21  
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