

PROCEDURE:

- Take 3 can. Record mass of can & lid no. Determine its empty weight & record it clean dry can & lid
- Dig up a whole up to 1' from where you have to test the soil sample & take soil sample in can & weight it.
- Then dig the whole to more depth up to 2'.take soil sample in 2nd can & record its weight.
- Then dig the whole up to 3' take sample and weight it.
- Then place the sample in oven & set the oven temperature & leave for 24 hours
- Remove the can carefully replace the lid & allow it to cool to room temperature
- Determine and record the mass of can

DATA ANALYSIS:

W_1 = weight of can with lid

W_2 = weight of moist soil + lid

W_3 = weight of dried soiled + can

Determination of mass of soil mass $\Rightarrow M_{\text{soil}} = W_2 - W_1$

Determination of mass of water $\Rightarrow W_w = W_2 - W_3$

Moisture content: $\Rightarrow M/c = W_w / W_s \times 100$

OBSERVATION & CALCULATIONS:**TABLE:1**

Group #.	Depth (ft.)	Cane #.	W1 (Wt. of cane)	W2 (Wt. of cane + wt. of wet soil)	W3 (Wt. of cane + dry soil)	Moisture Content W (%age)
01	1'	09	37.6g.	151.6469g	146.6239g	4.61
	2'	10	37.2g	142.7274g	137.3872g	5.33
	3'	11	32.6g	149.5303g	135.3463g	13.8
02	1'	01	33.7g	115.803g	111.3293g	5.76
	2'	03	36.1g	125.278g	120.4061g	5.78
	3'	05	38.0g	151.022g	139.0246g	11.88
03	1'	04	33.9g	128.087g	122.8321g	5.91
	2'	07	33.7g	122.1699g	115.3627g	8.34
	3'	08	37.5g	128.4710g	119.437g	11.03

COMMENTS:

Solid Mechanics Lab Manual

Liyong Dong



Solid Mechanics Lab Manual:

Exploring Physical Anthropology Laboratory Manual & Workbook Suzanne E. Walker-Pacheco, 2017-02-01 Exploring Physical Anthropology is a comprehensive full color lab manual intended for an introductory laboratory course in physical anthropology It can also serve as a supplementary workbook for a lecture class particularly in the absence of a laboratory offering This laboratory manual enables a hands on approach to learning about the evolutionary processes that resulted in humans through the use of numerous examples and exercises It offers a solid grounding in the main areas of an introductory physical anthropology lab course genetics evolutionary forces human osteology forensic anthropology comparative functional skeletal anatomy primate behavior paleoanthropology and modern human biological variation **Catalogue for the Academic Year** Naval Postgraduate School (U.S.), 1970 *Goal Oriented Learning Environments* Horace Moo-Young, Timothy Fortner, 2003 E learning encompasses many things to many people Elliot Massie a leading e learning guru states that Online learning is not about taking a course and putting it on desktop It encompasses Combination of learning services and technology to provide high value integrated learning anytime and anyplace GOLE aims to create a virtual learning simulator that is capable of customizing the pedagogy to the learners learning style To properly design learn by doing scenarios the learning environment must balance the learning objectives with authenticity The key is to build a realistic environment which is complex enough to promote expectation failure and robust enough to support the learner at that point Two of the major learning objectives for a goal oriented learning environment are the application of facts and building specific skills The purpose of this research was to design develop implement and assess a Goal Oriented Learning Environment GOLE into the Civil and Environmental Engineering curriculum at Lehigh University Also to design develop implement and assess Internet based instructional systems into the CEE curriculum To achieve these objectives a GOLE was implemented into two courses that were used as case studies in this research These case studies describe the instructional design method utilized and the assessment involved to evaluate the courses The instructional design method utilized nine steps Discuss Determine Decide Design Develop Implement Assessment Evaluation and Evolve The designing of GOLE focused on content delivery platform character development and story line In order to assess and evaluate the GOLE a series of five evaluations were created in order perform the analysis skill matrix course performance website evaluations and the DISC profile The data was then analyzed to determine what parts of the course were effective **Applied Mechanics Reviews** ,1985 **An Introductory Guide to EC Competition Law and Practice** Valentine Korah, 1994 *Publications of the National Institute of Standards and Technology ... Catalog* National Institute of Standards and Technology (U.S.), 1981 *NBS Special Publication* ,1968 *Publications of the National Bureau of Standards ... Catalog* United States. National Bureau of Standards, 1980 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1976 *Publications of the National Bureau of Standards* United States. National Bureau of Standards, 1980

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Scientific and Technical Aerospace Reports , 1994-06 **Management, a Bibliography for NASA Managers** , 1989 American Scientific Books , 1965 Structural Foundation Designers' Manual W. G. Curtin, Gerry Shaw, Gary Parkinson, J. Golding, Norman Seward, 2006-12-04 This manual for civil and structural engineers aims to simplify as much as possible a complex subject which is often treated too theoretically by explaining in a practical way how to provide uncomplicated buildable and economical foundations It explains simply clearly and with numerous worked examples how economic foundation design is achieved It deals with both straightforward and difficult sites following the process through site investigation foundation selection and finally design The book includes chapters on many aspects of foundation engineering that most other books avoid including filled and contaminated sites mining and other man made conditions features a step by step procedure for the design of lightweight and flexible rafts to fill the gap in guidance in this much neglected yet extremely economical foundation solution concentrates on foundations for building structures rather than the larger civil engineering foundations includes many innovative and economic solutions developed and used by the authors practice but not often covered in other publications provides an extensive series of appendices as a valuable reference source For the Second Edition the chapter on contaminated and derelict sites has been updated to take account of the latest guidelines on the subject including BS 10175 Elsewhere throughout the book references have been updated to take account of the latest technical publications and relevant British Standards

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