



INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR
Department of Civil Engineering
Soil Mechanics Laboratory

LABORATORY VANE SHEAR TEST
(IS 2720-part 30-1980) Reaffirmed-2007

THEORY:

The objective of this test is to find the shear strength of soil. This test is performed to find shear strength of a given (generally very soft) soil specimen. Vane shear test is a useful method of measuring the shear strength of soft clay. It is a cheaper and quicker method. The test can be conducted in field as well as in laboratory. The laboratory vane shear test for the measurement of shear strength of cohesive soils is useful for soils of low shear strength (less than 0.3 kg/cm^2) for which unconfined tests cannot be performed.

NEED & SCOPE:

The test gives the undrained strength of the soil. The undisturbed and remolded strength obtained are also useful for evaluating the sensitivity of soil. The data acquired from vane shear test can be used to determine:

- Undrained shear strength
- Evaluate rapid loading strength for total stress analysis
- Sensitivity of soil to disturbance
- Analysis of stability problems with embankment on soft ground

APPARATUS REQUIRED:

1. Vane shear apparatus
2. Soft Soil Specimen
3. Specimen container
4. Vernier Caliper
5. Sensitive weighing balance with 0.01 g accuracy

PROCEDURE:

1. In case of remolded soil specimen, the dry weight of soil and the required water content to be taken depends on the requirement. (Usually in-situ dry density and water content will be taken for sample preparation).
2. Prepare eight specimens of the soil sample by rapidly mixing the soil with the water taken until uniform soil sample is obtained.
3. The uniformly prepared sample is filled in the specimen container whose height is 76mm and diameter is 38mm (Having (H/D) aspect ratio of 2).
4. The application of torque can be done using springs of different stiffness referred as spring constants (2, 4, 6, 8 kg-cm). To start with, the spring of stiffness (spring constant, 2 kg-cm) is attached to the vane shear apparatus.
5. Mount the specimen container with the specimen on the base of the vane shear apparatus. If the specimen container is closed at one end, it should be provided with a hole of about 1 mm diameter at the bottom.
6. Gently lower the shear vanes into the specimen to their full length without disturbing the soil specimen. The top of the vanes should be at least 10 mm below the top of the specimen. Note the initial readings of the (upper and lower) needles of angle of twist before applying torque.

Lab Manual IIT

Prof. Satyashree Ghodke



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Microprocessor (8085) Lab Manual G.T. Swamy, 2006 *Basic Microwave Techniques and Laboratory Manual* M. L. Sisodia, G. S. Raghuvanshi, 1987 **Microwave Engineering** M. L. Sisodia, 2005 This Book Has Been Written Strictly According To The Latest Syllabus Prescribed By U P Technical University Lucknow For Undergraduate Students Of Electronics Communication Engineering Its First Chapter Discusses The Microwave Propagation Through Waveguides The Second Chapter Describes Microwave Cavity Resonators Third Chapter Deals With Microwave Components Chapter Four Explains Various Microwave Measurements The Chapter Five Discusses Limitations Of Conventional Active Devices At Microwave Frequencies And Introduces Various Microwave Tubes And Their Classification Chapter Six Is Divided Into Three 6A 6B 6C And Discusses O Type 6A 6B And M Type 6C Tubes Microwave Semiconductor Devices Have Been Discussed In Chapters Seven To Nine Microwaves And Their Applications Are Described In An Introduction Authors Have Taken Special Care In Keeping A Balance Between Mathematical And Physical Approach Large Number Of Illustrative Diagrams Have Been Incorporated A Good Number Of Solved Problems Picture From University Examination Papers Have Been Included For Reinforcing The Key Concepts **Current Trends in Ergonomics** Rosnah Mohd Yusuff, Siti Anom Ahmad, Dian Darina Indah Daruis, Baba Md Deros, Siti Zawiah Md Dawal, 2013-12-30 Selected peer reviewed papers from the 2nd International Conference on Ergonomics ICE 2013 September 2 4 2013 Kuala Lumpur Malaysia **Introduction to Electronics** Stephen C. Harsany, 2000 This book s strong multi level coverage of DC circuits magnetism and AC circuits emphasizes practical applications and troubleshooting skills throughout It provides 100 text and lab circuits complete with a demo version of Electronics Workbench on accompanying CD ROM and diskette For electronics engineers and technicians **Cable and Wireless Networks** Mário Marques da Silva, 2018-09-03 Cable and Wireless Networks Theory and Practice presents a comprehensive approach to networking cable and wireless communications and networking security It describes the most important state of the art fundamentals and system details in the field as well as many key aspects concerning the development and understanding of current and emergent services In this book the author gathers in a single volume current and emergent cable and wireless network services and technologies Unlike other books which cover each one of these topics independently without establishing their natural relationships this book allows students to quickly learn and improve their mastering of the covered topics with a deeper understanding of their interconnection It also collects in a single source the latest developments in the area typically only within reach of an active researcher Each chapter illustrates the theory of cable and wireless communications with relevant examples hands on exercises and review questions suitable for readers with a BSc degree or an MSc degree in computer science or electrical engineering This approach makes the book well suited for higher education students in courses such as networking telecommunications mobile communications and network security This is an excellent reference book for academic institutional and industrial professionals with technical responsibilities in

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White, 2003-05-15 Teaches analog and digital circuit theory by building working circuits For college students and self study

Compressed Biogas (CBG) Virendra Kumar Vijay, Rimika Kapoor, Sharang Dev Sharma, Vandit Vijay, Rahul Jain, 2025-09-30 This book provides theoretical and practical information on biogas production and upgradation CBG in a lucid manner and real life scenarios The core topics covered include i introduction to biogas production cleaning and upgradation and specifications of biomethane in various countries for different applications ii description of various processes and technologies for the cleaning of biogas iii a detailed information on the technologies for separation of carbon dioxide from biogas to upgrade it to biomethane CBG iv assessment and comparison of the biogas up gradation technologies on the basis of various techno economic factors v design and development of water scrubbing technology and vi future prospects of decentralized biogas up gradation and bottling technology CBG is a growing field for mitigating climate change waste management and disposal This book provides information on how the biogas up gradation sector is developing and how it could harness its potential in a decentralised manner A broad description of technological innovations and developments in the sector has been provided This book will be of use to students researchers professionals entrepreneurs municipalities nodal agencies of state and central governments CBG Plant owners operators etc It can also be used as a text for professional training skill development and capacity building for stakeholders **Core Topics in Endocrinology in Anaesthesia and Critical Care** George M. Hall, Jennifer M. Hunter, Mark S. Cooper, 2010-04-01 Core Topics in Endocrinology in Anesthesia and Critical Care provides a comprehensive practical overview of the perioperative management of patients with endocrine disorders giving clear diagnostic advice and management guidelines This book considers the management of patients with endocrine disorders of the pituitary thyroid parathyroid and adrenal glands including rarer disorders such as MEN syndrome It then considers all aspects of the perioperative management of diabetic patients including paediatric obstetric and ambulatory patients Finally it discusses endocrine disorders in the critically ill patient covering such issues as the topical conundrum of glucose control and the management of diabetic metabolic acidosis thyroid storm and myxoedema coma Every chapter reviews the relevant anatomy and pathophysiology and the latest developments in defining the genetic causes are also considered where appropriate Core Topics in Endocrinology in Anesthesia and Critical Care is an invaluable tool for all anaesthetists and intensivists in their daily clinical practice *Computer System Organization* Sonal Yadav , 2025-06-01

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Re-visiting the Rhizosphere Eco-system for Agricultural Sustainability

Udai B. Singh, Jai P. Rai, Anil K. Sharma, 2022-10-28 The present book entitled Re visiting the Rhizosphere Eco system for Agricultural Sustainability written by experts in the field provides a comprehensive and consolidated state of art overview of various aspects of rhizosphere biology ecology and functioning The role of rhizosphere microbial diversity in enhancing plant health and plant microbe beneficial symbioses is discussed Main topics include the diversity of plant associated microbes in the rhizosphere below ground communication among the plant soil insects and microbes rhizosphere ecosystem functioning rhizosphere engineering recruitment of microorganisms in the rhizosphere mycorrhizal fungal symbiosis positive interaction of the plants with the beneficial soil microorganisms for inducing the plant growth conferring abiotic and biotic stress tolerance and modulating several pathways of the plants for the proper establishment and revitalization in the degraded and contaminated soils or negative likes the host pathogen interactions leading to the disease development in plants Further chapters focus on the role of signaling during the different stages of the plant microbe coexistence in symbiotic or pathogenic relationships in quorum sensing microbial signaling and cross talk bio film formation and antimicrobial peptides The book also discusses the application of microbes in biodegradation of xenobiotic contaminants bioremediation of heavy metals sustainable agriculture and soil health biological control of insect pests and plant pathogens and the latest tools of omics which offer pioneering approaches to the exploration of microbial structure and function secretome holobiome below ground interaction and microbial cooperation for sustainable food production and enhanced resource acquisition Descriptions of cutting edge techniques and novel approaches make this book unique in the area of rhizosphere biology This is a useful reading material for researchers and students of microbiology agriculture ecology and rhizosphser studies

Current Catalog National Library of Medicine (U.S.), 1970 First multi year cumulation covers six years 1965 70 *Methods for Studying Mononuclear Phagocytes* Dolph Adams, 2012-12-02 *Methods for Studying Mononuclear Phagocytes* is a practical guide to the study of mononuclear phagocytes that brings together various well established and useful methods for examining these cells The technical protocols have been made detailed specific practical and inclusive of the necessary mystique for immediate and direct application in the laboratory The book is divided into 11 parts arranged according to the

sequence of steps that would generally be followed to study a given population of mononuclear phagocytes I methods for obtaining and culturing populations of human and animal mononuclear phagocytes II methods for separating populations of leukocytes to enrich or deplete their content of mononuclear phagocytes II criteria and techniques for identifying mononuclear phagocytes IV methods for quantifying the number of mononuclear phagocytes V techniques for studying the morphology of mononuclear phagocytes VI methods for quantifying the biochemical constituents of mononuclear phagocytes VII methods of quantifying phagocytosis pinocytosis and chemotaxis VIII methods for quantifying the secretory products of mononuclear phagocytes IX procedures for quantifying the destruction of tumor cells and of microorganisms by mononuclear phagocytes X methods for studying the cell biology of mononuclear phagocytes and XI techniques for studying mononuclear phagocytes in vivo including procedures for estimating their kinetics accumulation identification and microbicidal properties

IRRIGATION AND WATER POWER ENGINEERING DAS, MADAN MOHAN, SAIKIA, MIMI DAS, 2009-01-24 Designed primarily as a textbook for the undergraduate students of civil and agricultural engineering this comprehensive and well written text covers irrigation system and hydroelectric power development in lucid language The text is organized in two parts Part I Irrigation Engineering deals with the methods of water distribution to crops water requirement of crops soil water relationship well irrigation and hydraulics of well canal irrigation and different theories of irrigation canal design Part II Water Power Engineering offers the procedures of harnessing the hydropotential of river valleys to produce electricity It also discusses different types of dams surge tanks turbines draft tubes power houses and their components The text emphasizes on the solutions of unsteady equations of surge tank and pipe carrying water to power house under water hammer situation It also includes computer programs for the numerical solutions of hyperbolic partial differential equations KEY FEATURES Provides worked out examples and problems in SI units Presents all possible methods of design including Ranga Raju Misri's new approach of canal design Gives numerous illustrations to reinforce the understanding of the subject Besides undergraduate students this book will also be of immense use to the postgraduate students of water resources engineering Engineering and Technical Education in India Pradeep Chaturvedi, 2003 *Laboratory Manual for Principles of General Chemistry* J. A. Beran, 2013-12-12 A two term manual for General Chemistry This supplementary manual focuses on chemical principles and techniques The Laboratory Manual for Principles of General Chemistry tenth edition provides a broad scope of experiments coupled with a clear layout for ease of use The manual delivers material for two or three course terms It also assists chemistry students in knowing how to time various techniques in the lab environment The companion manual is organized into topic sections such as Chemical and Physical Properties Atomic and Molecular Structure Gases and Solutions **Essentials and Applications of Solar Energy Technology** Prof. Satyashree Ghodke, 2022-06-16 The origin and continuation of humankind is based on solar energy The most basic processes supporting life on earth such as photosynthesis and the rain cycle are driven by solar energy From the very beginning of its history humankind realized that a

good use of solar energy is in humankind's benefit. Solar power is widely acknowledged to be the fastest growing energy industry in the world. As technological improvements steadily progress toward the erasure of cost and efficiency barriers, two issues are coming to the forefront of public discourse on solar energy: variability and reliability. These issues have made the field of solar forecasting and resource assessment pivotally important, and to date there has been no comprehensive single text devoted to it. The major strength of the book is the clear and precise presentation of the subject matter in a logical manner.

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