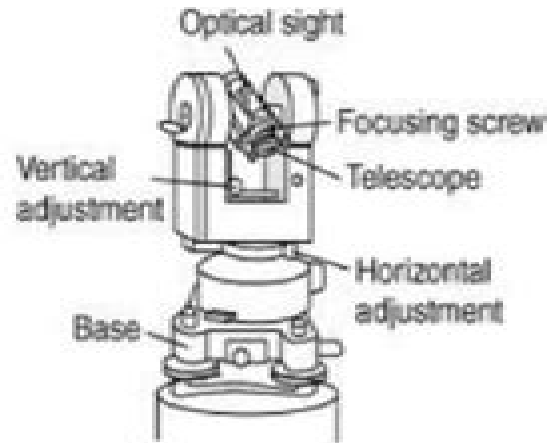


EXPERIMENT NO -1

STUDY OF THEODOLITE IN DETAIL – PRACTICE FOR MEASUREMENT OF HORIZONTAL AND VERTICAL ANGLES

The theodolite is one of the most precise surveying instruments and is suitable for measurement of angles in horizontal as well as vertical planes.



PARTS OF VERNIER THEODOLITE

- 1) **THE LEVELING HEAD:** this usually consists of a tribrach and triivet carrying one foot screw on each of its three arms.
- 2) **THE TWO SPINDLES:** The theodolite has an outer axis and an inner axis of rotation which are both coincident with the vertical axis of the instruments.
- 3) **THE LOWER PLATE AND UPPER PLATE:** the outer axis is attached to the lower plate which is also called the scale plate. This plate is circular in shape and beveled at the edge. It is graduated from 00 to 3600 in the clock wise direction. The inner axis is attached to the upper plate which is also known as the vernier plate. The upper clamp and upper tangent screw facilitate fixing it to the lower plate at any desired position.
- 4) **PLATE LEVEL TUBES:** two level tubes are provided on the vernier plate at right angles to one another. These are known as Plate level.

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Engineering Surveying Laboratory Manual Robert Hamilton, George Murgel, 2014-08-26 **Surveying** Juny Pilapil La Putt, 1985 **Elementary surveying** Juny Pilapil La Putt, **Engineering Surveying Laboratory Manual Ahead** James P. Webster, 1988-08-01 Laboratory Manual for Surveying I Phillip G. Manke, David M. MacAlpine, 1966 Surveying Laboratory Manual ,1972 *Laboratory Manual for Construction Surveying* Ralphord R. Hight, V. G. Tracey, 1974

Laboratory Manual of Elementary Chemistry Jabez Montgomery, Roy Burnett Smith, 1904 *U.S. Geological Survey Water-supply Paper* ,1982 **Revised Laboratory Manual for Surveying I** Phillip G. Manke, David M. MacAlpine, 1966

Introduction to the Biogeochemistry of Soils Ronald Amundson, 2021-06-17 The first process based textbook on how soils form and function in biogeochemical cycles offering a self contained and integrated overview of the field as it now stands for advanced undergraduate and graduate students in soil science environmental science and the wider Earth sciences The jargon free approach quickly familiarises students with the field s theoretical foundations before moving on to analyse chemical and other numerical data building the necessary skills to develop questions and strategies for original research by the end of a single semester course The field based framework equips students with the essential tools for accessing and interpreting the vast USDA soil dataset allowing them to establish a working knowledge of the most important modern developments in soil research Complete with numerous end of chapter questions figures and examples students will find this textbook a multidisciplinary toolkit invaluable to their future careers *Lab Manuals* ,2022-12-28 This laboratory manual is designed to acquaint the student with essential civil engineering experimentation works and various tests to be carried out on and offsite which is required by every civil engineer when he or she enters in a professional set up This lab manual covers various subjects like Mechanics of Solids in which compressive flexure and tensile strength testing is done Engineering Geology where geological properties important from civil engineering point of view are studied Building Material and Concrete Technology lab where testing of material is done Fluid Mechanics lab which is designed to examine the types and various parameters of fluid flow Applied Hydraulics lab where students study on the models of hydraulic machinery Surveying lab where students get to know about field surveying like chain and compass survey Theodolite Survey and Total Station Survey Transportation lab where bitumen and testing of aggregates used for road work construction is done Geotechnical lab where properties and the strength parameters of the soil are studied Environmental lab where the quality of water and waste water is checked various tests on solid waste samples are done and noise levels at various places are checked Each experiment starts with objectives to be achieved the experimental set up and the materials that are needed to perform the experiment and a stepwise procedure for conducting the experiment and a set of MCQ s at the end The students will note down their observations measurements and or calculations on the Results Sheets provided at the end of the experiment **Catalog of Copyright Entries. Part 1. [B] Group 2. Pamphlets, Etc. New Series** Library of Congress.

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