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LAB MANUAL FOR - Ammini College of Engineering

The two points will be P1, your survey station where the Total

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Station is located, and a second point, P2 some distance away. These positions can either be predetermined from a previous survey, or determined using a differential GPS such as OmniStar. Locate the positions of the two points P1 and P2 with OmniStar.

Total Station Lab Manual Of

TOTAL STATION. INTRODUCTION The most commonly used surveying instrument is the total station. A total station is the combination of an electronic theodolite, an electronic distance measuring device (EDM), and a microprocessor with memory unit. The original name of this instrument of this type was electronic tacheometer but HEWEET PACKARD introduced the name TOTAL STATION.

SURVEYING LAB - II MANUAL

1. Select a station point O. 2. Set the theodolite at O and do the

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temporary adjustments. The telescope is adjusted for right face right swing. 3. Set the vernier A to zero using upper clamp. Loosen the lower clamp, direct the telescope to the station point A and bisect A exactly by using the lower clamp and lower tangent screw. 4.

(DOC) Seminar Draft Report On Total Station Survey ...

A total station is a combination of an electronic theodolite, an electronic distance measuring device (EDM) and a micro processor with memory unit. This combination makes possible to determine the coordinates of a reflector aligning the instruments cross hairs on the reflector and simultaneously measuring the vertical and horizontal angles and ...

CVEN 303 Lab Manual-Fall 2013 - Texas A&M University

Leica TS06 Manual Leica TS06 Manual Leica TS09 Manual Leica TCRA1101 Manual Leica TCRA1105 Manual Leica TCRA1105

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Manual Leica TCRP1201 Manual Leica TCRP1202 Manual Leica TCRP1203 Manual Leica TCRP1205 Manual Leica TS11 Manual Leica TS15 Manual Nikon Nivo 1.C Prism Manual Nikon Nivo 2.C Prism Manual Nikon Nivo 2.M Prism Manual Nikon Nivo 3.C Prism [...]

CE 104 Practical Surveying Sessional (Lab Manual)

Aurora's Technological & Research Institute Surveying Lab 1
SURVEYING - II LAB MANUAL B. Tech II Year - II Semester
DEPARTMENT OF ... seriously either by putting penalty or by dismissing the total group of students from the lab for the semester/year. ... Keeping the instrument exactly above the station mark, by means of a plumb bob is known ...

Table of Contents - Penn State College of Engineering

the course of preparing this manual. In addition, the authors would like to thank the University of Asia Pacific (UAP), whose

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manual guided the authors in preparing this manual. In addition, surveying concepts were taken from Surveying volumes 1, 2 and 3 by Dr. B.C. Punmia, while the pictures were collected from the internet. Sayka Banu

SURVEYING - II LAB MANUAL B. Tech II Year - II Semester

lab # 12: study of theodolite 32 lab # 13: horizontal angle measurement "closing the horizon" 37 lab #14: measurement of the length (width) of an obstructed building using the theodolite 40 lab #15: measuring an object height by measuring vertical angle 42 lab #16: study of total station 44 lab #17: measurement of a closed traverse 48

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Seminar Draft Report On Total Station Survey

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Visit Tiger Supplies to purchase Total Stations. You can get high-quality and durable surveying equipment that meet your needs.

Total Station Setup and Operation - University of South ...

The total station A total station consists of a theodolite with a built-in distance meter (distancer), and so it can measure angles and distances at the same time. Today's electronic total stations all have an opto-electronic distance meter (EDM) and electronic

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angle scanning. The coded scales of the horizontal and vertical circles are scanned

Surveying Manual - UoH

the accuracy of a total station is dependent on instrument type. Angle Accuracy (Horizontal or Vertical) can range from 2" to 5". Accuracy is highly dependent on leveling the instrument. Thus two leveling bubbles are provided on the instrument and are referred to the circular level and the plate level.

Surveying made easy

Field Lab 5: Horizontal Distance and Angle Measurement Using the Total Station Purpose: The purpose of this field lab is to determine the length of the sides of the traverse and to become familiar with the procedure for horizontal distance measurement by EDM (total station) using a prism pole and reflector.

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Total Stations for Surveying, Construction, and Mapping

...

LAB MANUAL Academic Year : 2017 - 2018 ... Determine of area using Total Station 9. Traversing using Total Station 10.

Contouring using Total Station 11. Determination of Remote height using total station ... putting penalty or by dismissing the total group of students from the lab for the semester/year. 12.

Students should be present in the ...

CHAPTER 7 Total Station Surveying

Surveying Lab-I Manual 9. Fig.4 Tape i) Cloth or linen tape ii) Metallic tape iii) Steel tape iv) Invar tape a) Cloth or linen tape It is made of woven linen strip 5 mm to 15 mm wide and varnished. It is easily affected by damp. b) Metallic tape It is made of linen strip inserted with metallic wires.

Total Station How to do it Manual No. 1: Simple

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Surveying ...

Total Station Setup and Operation Author: David Allison Created Date: 9/19/2018 9:42:30 AM

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Determine of area using total station. 7. Traversing using total station. 8. Contouring using total station. 9. Determination of remote height using total station. 10. Stake out using total station. 11. Distance , gradient ,diff, height between two inaccessible points using total station. CONTENTS

SURVEYING - I

1) Setup Total Station on station assigned to you in the lab (vertex in the figure below). Follow field demonstration and instructions provided to you in the previous labs. 2) Enter atmospheric conditions for 'ppm' correction and occupied station information in the Total Station, so and make it ready for the lab.

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