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SURVEYING 3B 2015 CHAPTER 3 TABLE OF CONTENTS 3. Measurement and use of Directions in calculations 3.1 Definitions 3.1.1 Geographic meridian 3.1.2 The magnetic direction dsp Trsp fcu 3.1.3 Magnetic declination 3.2 Introduction to the South African Coordinate System 3.2.1 Angles 3.2.2 Directions and Back Directions 3.2.3 Construction of a grid and plotting of coordinated points. 3.2.4 True direction (AZIMUTH) of a line at a point in South Africa 3.2.4.1 Implications of the difference between ...

Surveying 3B chapter 3 - Measurement and use of Directions ...

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Distance Measurement & Surveying Tools | A1 Equipment

Angular Measurements. Horizontal angle. Vertical angle. In Surveying all measurements are horizontal, can be inclined; reduce to horizontal and vertical components in plotting. Distance between 2 points on a plan or map is always horizontal distance irrespective of their elevation, (distance between their projection on horizontal plane).

Measurements in Land Surveying | Types of Measurement ...

Chapter 1 - Introduction; Chapter 2 - Control Surveys and State Plane Coordinate Systems; Chapter 3 - Surveying Measurements; Chapter 4 - GPS Surveys; Chapter 5 - Surveying Equipment; Chapter 6 - Survey Procedures; Chapter 7 - Photogrammetric Surveys; Chapter 8 - Survey Report; Appendices; BDC announcement BDC13T-04 (April 10, 2014) Survey ...

Survey Manual, Engineering

A line AB is measured using a tape of (nominal) length 20. m and is found to be 65.32 m long. When checked against. a standard, the tape was found to be 50 mm too long. Tape of (nominal) length, l = 20.00 m. If tape is 50 mm too long, actual length of tape, L = 20.00. + 0.05 m. = 20.05 m. AB.

Land Surveying Chapter 3 Linear Survey, Measurement ...

The three that are most used in survey are: Theodolite. Total station. Transit level. The instruments used in surveying are precision instruments used to get accurate measurements that can be then be used for mapping, modeling, and creating floor plans.

Equipment used for surveying - Landform Surveys

These English (metric) rods can be read and interpolated to the nearest 0.005 foot (1 mm). Third Order leveling requires a geodetic level a wooden, invar, fiberglass bar coded or calibrated fiberglass rod for differential leveling. The rods must not be more than 12 feet (4 m) in length.

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Because repeated measurements are costly, other surveying techniques that enable surveyors to calculate and account for measurement error are preferred over open traverses for most applications. 5.5.4 Triangulation

5.5 Land Surveying and Conventional Techniques for ...

Instruments used in surveying include: Alidade; Alidade table; Cosmolabe; Dioptra; Dumpy level; Engineer's chain; Geodimeter; Graphometer; Groma (surveying) Laser scanning; Level staff; Measuring tape; Plane table; Pole (surveying) Prism (surveying) (corner cube retroreflector) Prismatic compass (angle measurement) Ramsden surveying instruments; Ranging rod; Surveyor's chain

List of surveying instruments - Wikipedia

The early EDM instruments could measure long distances with an accuracy of about 5 parts per million (i.e. 5 mm for every km or to 150 mm over a 30 km line), but later versions were more accurate, able to measure with an accuracy of about 1 part per million (1 mm per kilometre or 30 mm over a 30 km line)