

Practical No: 1

Object:

Introduction to different parts and their function of digital or electronic theodolite.

Theory:

The theodolite is the most intricate and accurate instrument designed for the measurement of horizontal and vertical angles up to $10''$ or $20''$, depending upon the least count of the instrument. It is also known as "universal instrument", due to its various uses. The traditional use has been for land surveying, but they are also used extensively for building and infrastructure construction. It consists of a moveable telescope mounted so it can rotate around horizontal and vertical axes and provide angular readouts. These indicate the orientation of the telescope, and are used to relate the first point sighted through the telescope to subsequent sightings of other points from the same theodolite position.

Uses:

The following are the different purposes for which the theodolite is used:

- Measuring horizontal and vertical angles
- Measuring deflection angles
- Measuring magnetic bearings
- Measuring the horizontal distance between two points
- finding the vertical height of an object
- finding the difference of elevation between various points
- For ranging a line
- prolonging survey lines
- Establishing grades
- setting out curves.



Fig01.1 Digital theodolite

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F. Hodgman



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TEXTBOOK OF SURVEYING P. VENUGOPALA RAO, VIJAYALAKSHMI AKELLA, 2015-01-01 This book has been designed to be as a fundamental textbook on surveying covering all aspects theory and practical cases examples for civil engineering students at both degree and diploma level Written with a student friendly approach the book contains solved examples and illustrations for easy understanding of the subject First ten chapters are the essential concepts needed to be studied in the first semester and the next eight chapters include advanced topics on triangulation photogrammetry remote sensing and astronomy that are meant for higher semesters Details of survey camp work and extensive survey projects are also dealt with in the chapters and in an Appendix separately Emphasis is given to the systematic and detailed presentation of topics in one volume to benefit the students in their course work Key features Illustrative Figures exemplify the theories profoundly Exhaustive Solved Examples to help students grasp the concepts easily Analytical Exercises and Numerical Problems to judge students comprehension on the subject *Surveying Practice* Philip Kissam, 1971 **Land Surveyor Reference Manual** Andrew L. Harbin, 1989 The Land Surveyor Reference Manual is the book most used to prepare for the Fundamentals of Land Surveying FLS formerly LSIT exam It is also a complete review of important techniques unique to the land surveying profession In addition to 29 chapters covering every major topic in the discipline it provides a concise review of the math necessary to perform surveying functions The Reference Manual contains hundreds of practice problems with solutions available separately in the companion Solutions Manual Exam information test taking strategies and an extensive index complete this package When you stock the Land Surveyor Reference Manual be sure also to stock the Solutions Manual your customers will ask for it **Fundamentals of Surveying Practice Exam** George M. Cole, 2014 Fundamentals of Surveying Practice Exam includes 110 multiple choice problems consistent with the two sessions of the NCEES computer based fundamentals of surveying FS exam s scope of topics and level of difficulty Like on the actual exam an average of 3 minutes is required to solve each problem in this book Comprehensive step by step solutions illustrate efficient problem solving approaches and link common situations in current surveying practice to background information and history *Professional*

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