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#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

SURVEYING LAB 2012-13	THEODOLITE	EXP. (7)
Experiment No.7-2: Sensitive http://www.southindiajournal.com	Instrument weight: 15.2 kg Working Temperature: 20° to +45° Working beam: 50 Magnification: 30X Angle measurement: 1' or 5", optional	

Surveying by using Digital Theodolite South ET-05 Electronic

A theodolite is a telescope mounted to very sensitive horizontal and vertical transactors. It is capable of measuring angles and, when used in conjunction with graduated reference objects, distances with a high degree of accuracy.



1 Setup

1.1 Tripod setup

In this section we learn how to set up the tripod and roughly center and level it over a small positioning mark, such as a diron in a penny glued to the soil, a nail head, or any other small soil object.

- Place the tripod over the positioning mark, setting the legs at a convenient height, and roughly center and level the tripod head by eye.
- Suspend the plumb bob included in the theodolite box from the hanger beneath the tripod head.
- Readjust the tripod to center the plumb bob over the positioning mark by moving all three tripod feet by the same amount in the same direction.
- Firmly set the tripod feet in position. If necessary, adjust the heights of the tripod legs to re-center the tripod within 1 cm of the reference mark.
- Tighten the leg clamps on the tripod.

1.2 Theodolite setup

In this section we learn how to unpack, set up, center, and level the theodolite.

1.2.1 Seating and centering the theodolite

- Examine how the tripod is seated in its box. See Fig. 1.
- Lift the theodolite out of its box by the handle never by the telescope.



Figure 1. Theodolite-in-a-box.

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Theodolite Surveying Lab Manual