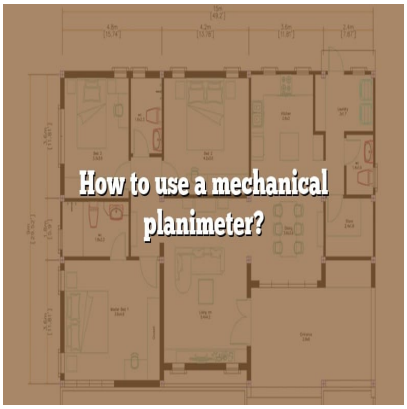

How to use a mechanical planimeter?

Description

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Starting with this article which is the answer to your How to use a mechanical planimeter? question. CAD-Elearning.com has what you want as free TEXT tutorials, yes, you can learn faster and more effectively here.
And here is the answer to your How to use a mechanical planimeter? question, read on.

Introduction

Also, how do you use planimeter?

Likewise, how does a mechanical planimeter work? As the planimeter moves, the wheel partially rolls and partially slides. Motion of the segment in the direction of the vector N causes the wheel to roll, which is recorded on a scale attached to the wheel. The motion of the segment along its length causes the wheel to slide, and this motion is not recorded.

Beside above, how do you measure the area of a planimeter?

1. the anchor point is inside the area being measured.
2. the anchor point is outside the area being measured.
3. the area traced is in clockwise direction.
4. the area traced is in anti-clockwise direction.

Subsequently, what is mechanical polar planimeter? A polar planimeter is a mechanical device used to measure the area of a region by tracing the boundary of the region.

How is a planimeter important in surveying?

A planimeter, also known as a platometer, is a measuring instrument used to determine the area of an arbitrary two-dimensional shape.

How are Clinometers used?

A clinometer is a simple device used to measure angles. It can be used to measure the slope of a specific terrain, the height of a building or tree, or the declination of a celestial body. In the diagrams below the slope of the Schoolyard Habitat is measured.

What is planimeter method?

Planimeter is an instrument used in surveying to compute the area of any given plan. Planimeter only needs plan drawn on the sheet to calculate area. Generally, it is very difficult to determine the area of irregular plot. So, by using planimeter we can easily calculate the area of any shape.

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What is meant by zero circle?

Zero circle or the circle of correction, is the circle around whose circumference if the tracing point is moved but no rotation of the wheel will be caused. the wheel will slide on the paper without causing any change in the reading.

What is the meaning of planimeter?

Definition of planimeter : an instrument for measuring the area of a plane figure by tracing its boundary line.

What are the different types of planimeter?

I have found basically three types of planimeters (neglecting other devices of cartographers, some extravagant planimeters and planimeters which were not widesperad): Prytz hatchet planimeter, linear rolling planimeter and. Amsler (polar) planimeter and compensating planimeter.

How accurate is planimeter?

Planix planimeters have a stated accuracy of 0.2% of the area measured. For accurate work, Planix recommends that the work be done slowly and carefully and the averaging function be used so that the final measurement will be the result of several measurements.

What is an instrument used for mechanically measuring the area of plane figures drawn on rectilinear graph paper?

Explanation: By the use of planimeter, the area of the land can be measured which is used for processing.

Is planimeter analog or digital?

The digital planimeter is an enhanced version of the classic planimeter which represents an analog system on which petroleum engineer calculates the areas concerned on the same principle (Figure 2).

What is the zero setting of a planimeter?

HAFF Planimeters are fitted with a large, crystal-clear tracing lens, and a setting wheel with which to zero the scales. The lens enlarges the view of the line being traced and so makes possible a very high degree of accuracy. The setting wheel is used to zero the scales without touching the internal mechanism.

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How do you use a clinometer step by step?

Why are clinometers useful?

A clinometer is a tool that is used to measure the angle of elevation, or angle from the ground, in a right â€“ angled triangle. You can use a clinometer to measure the height of tall things that you canâ€™t possibly reach to the top of, flag poles, buildings, trees.

Are clinometers accurate?

Clinometers are valuable for simple, speedy and accurate measurement, checking and setting out of angles.

What is tracing arm in planimeter?

Parts of Planimeter: Tracing arm is an arm which manages the position of tracing point at one end with the help of hinge. Tracing Point: Tracing point is the movable needle point which is connected to tracing arm. This point is moved over the outline of area to be measured.

What is linear planimeter?

The linear planimeter works on the same basic principle as the polar planimeter, and is simply a variation that allows the areas of long, skinny regions to be measured. Here are some pictures of a Keuffel & Esser polar planimeter I have (model 620015). This was made by the German company Haff in about 1970.

Wrap Up:

I believe I have covered everything there is to know about How to use a mechanical planimeter? in this article. Please take the time to look through our CAD-Elearning.com siteâ€™s TEXT tutorials section if you have any additional queries about TEXT software. In any other case, donâ€™t be hesitant to let me know in the comments section below or at the contact page.

The article provides clarification on the following points:

- How is a planimeter important in surveying?
- How are Clinometers used?
- What is planimeter method?
- What is meant by zero circle?
- What is the meaning of planimeter?
- What are the different types of planimeter?
- What is the zero setting of a planimeter?
- How do you use a clinometer step by step?
- Why are clinometers useful?
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