

10.11.2.1 Weisbach triangle method

This appears to be the most popular method in civil engineering. Two wires, W_1 and W_2 , are suspended vertically in a shaft forming a very small base line (Figure 10.34). The principle is to obtain the bearing and coordinates of the wire base relative to the surface base. These values can then be transferred to the underground base.

In order to establish the bearing of the wire base at the surface, it is necessary to compute the angle $W_1W_2W_1$ in the triangle as follows:

$$\sin \hat{W}_2 = \frac{W_2}{W_1} \sin \hat{W}_1 \quad (10.1)$$

As the Weisbach triangle is formed by approximately aligning the Weisbach station W_1 with the wires, the angles at W_1 and W_2 are very small and equation (10.1) may be written:

$$\hat{W}_2 = \frac{W_2}{W_1} \hat{W}_1 \quad (10.2)$$

(The expression is accurate to seven figures when $\hat{W}_1 < 18'$ and to six figures when $\hat{W}_1 < 45'$.)

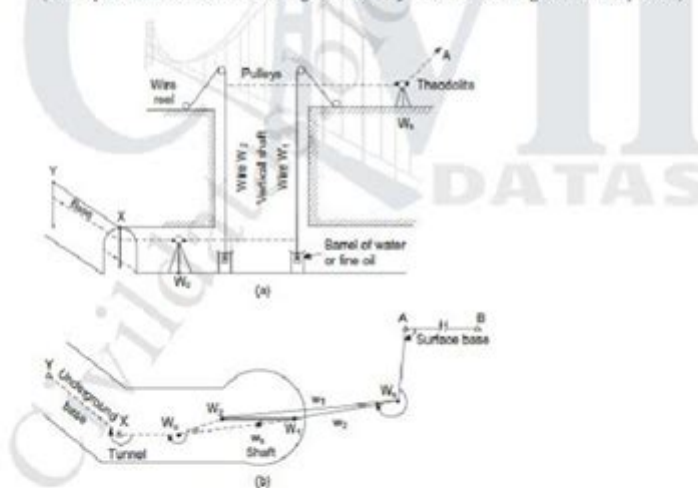


Fig. 10.34 (a) Section, and (b) plan

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Definition of Weisbach triangle. i. A configuration used in the surveying of a mine shaft. Ref: Pryor, 3 ii. The highly attenuated triangle formed by the plan position of two shaft plumb lines and one observation station. Ref: BS, 7. Click here to see list of references, authorities, sources and geographical terms as used in this glossary. Prev: weir table Next: weiss quadrilateral Glossary ...

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method Xaohxaoh (Geotechnical) (OP) 3 Mar 10 12:07. Can someone please jog my memory here. When two points are very close together the sin of the angle can lead to errors. If my memory serves me correctly then the Weisbach method can be ...

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Weisbach triangle method is used for determining the ...

If entry to the underground tunnel system is via an inclined shaft, then the surface survey may simply be extended and continued down that shaft and into the tunnel, usually by the method of traversing. Extra care would be required in the measurement of the horizontal angles due to the steeply inclined sights involved (see Chapter 5) and in the temperature corrections to the taped distances due to the thermal gradients encountered.

Chapter 13: Underground Surveying | Engineering360

A review of all triangle trigonometry, including the Law of Sines, the Law of Cosines, and the formula for finding the area of a triangle using trig. Include...

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Weisbach Triangle A more common method of control transfer, which does not require such precise alignment of the theodolite, is based upon the Weisbach triangle. Another advantage of this method is that precise alignment of the wires is not essential, so that they can be suspended from cantilever brackets or pulleys without having to ensure their precise positioning.

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