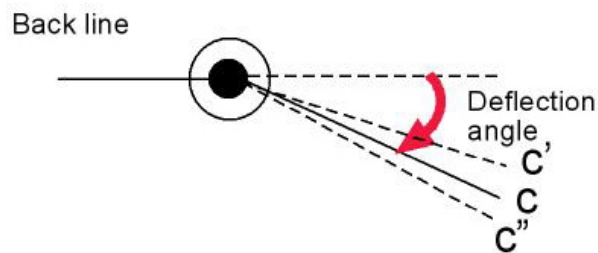
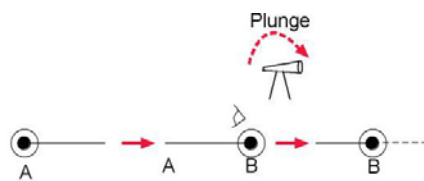


LAYING OFF ANGLES

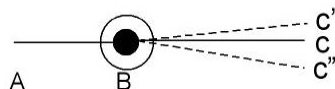
- Process: Lock angle, rotate theodolite, then open lock and measure again same angle. Should have double the first angle measurement.



PROLONGING A STRAIGHT LINE

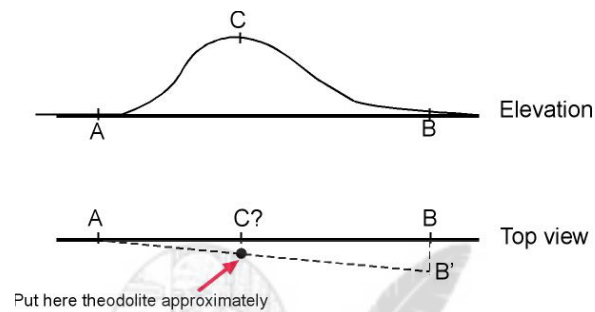


- Start by taking distance at A. Then go to B, rotate 180°, look back at A, plunge and make another line towards C.



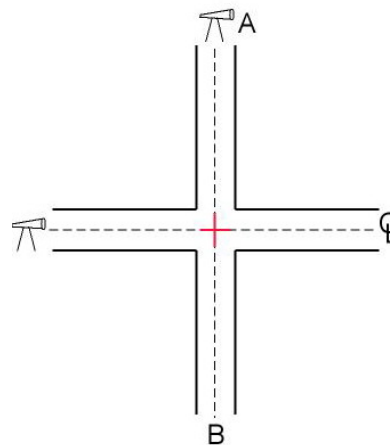
BUCKING IN (INTERLINGING)

- Read A, then plunge to B. If Distance between B and B' is 1 M, then you have to move 0.5 M to find C. then do the sighting again.

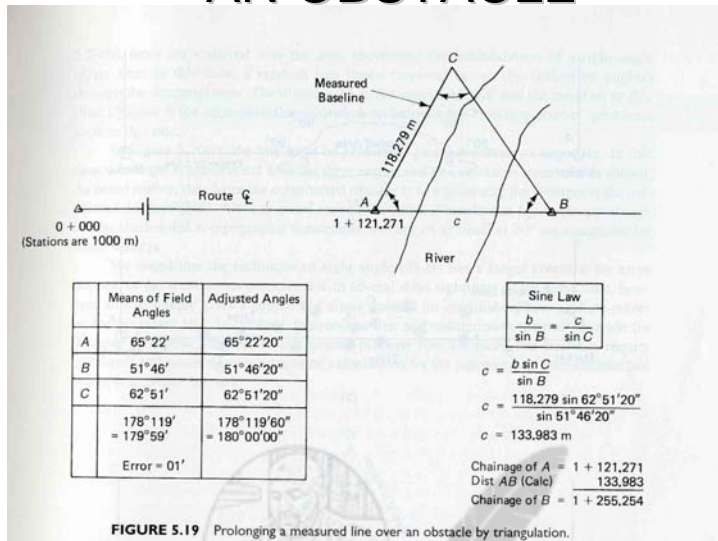


INTERSECTION OF 2 STRAIGHT LINES

- Put 2 strings between points and then get the intersection.



PROLONGING A MEASUREMENT LINE BY TRIANGULATION OVER AN OBSTACLE



PROLONGING A LINE PAST AN OBSTACLE

There are 3 methods for it:

1. Right-angle offset method.
2. Random-line method.
3. Triangulation method.

PROLONGING A LINE PAST AN OBSTACLE

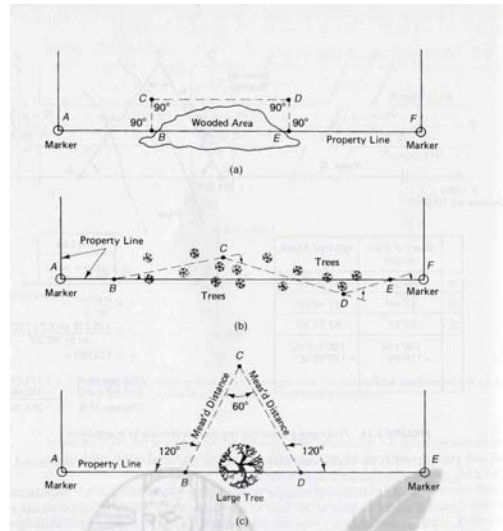


FIGURE 5.20 Prolonging a line past an obstacle. (a) Right-angle offset method. (b) Random-line method. (c) Triangulation method.

