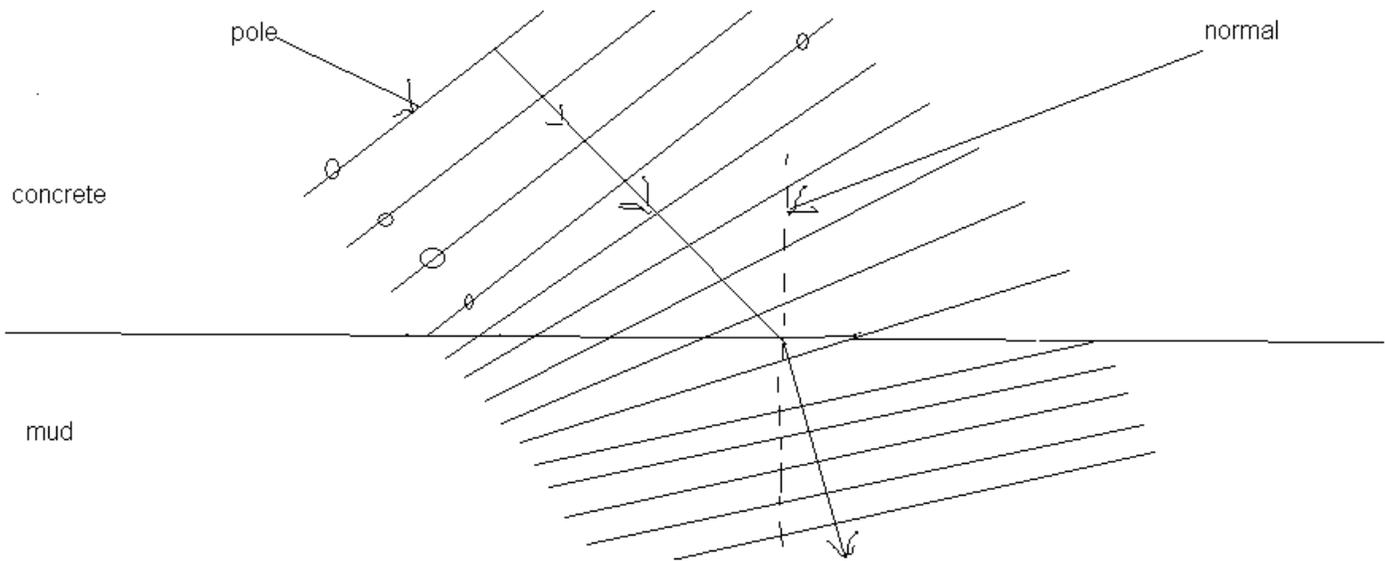


Let us imagine two men carrying a pole between them. We are looking at them from above their heads. First they are travelling on concrete where they can walk swiftly and then they enter an area where there is mud and hence they cannot walk as fast as before.



The diagram shows the pole and the heads of the two men as they are holding the pole and approaching the area where there is mud. (I did not continue to draw the heads!)

When both of them are walking on the concrete, both walk with the same speed.

But when one of the men starts walking in the mud, he finds difficulty to walk and his speed decreases. The man on the concrete still keeps his original speed since it is easy to walk on the concrete.

But as soon as both are walking in the mud, both of them will have difficulty to walk and so both will have the same lower speed.

This clearly shows that the change to a smaller speed when walking in the mud led to a change in the direction of walking with the pole of the two men.