

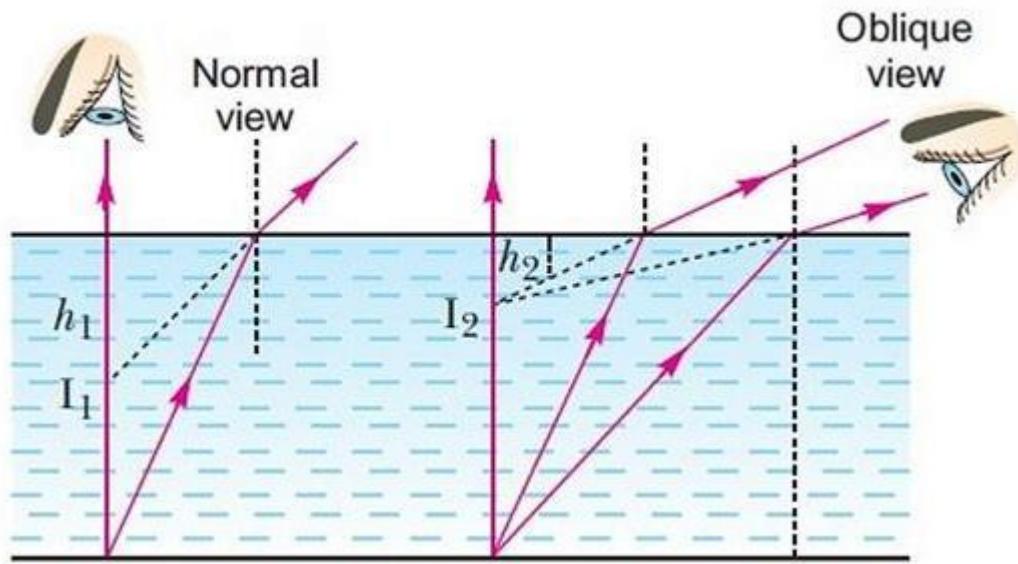
Answer on Question 48375, Physics, Optics

Question:

Does apparent depth of a tank of water change if viewed obliquely? If so, does apparent depth increase or decrease?

Solution:

Let's build the ray diagram for the cases of normal view and oblique view:



From the ray diagram we can convince, that the apparent depth of a tank of water changes when viewed obliquely. This occurs because light bends on travelling from one medium to another. Also, from the ray diagram we can see, that apparent depth decreased when viewed obliquely.

Answer:

- a) Yes.
- b) Decrease.