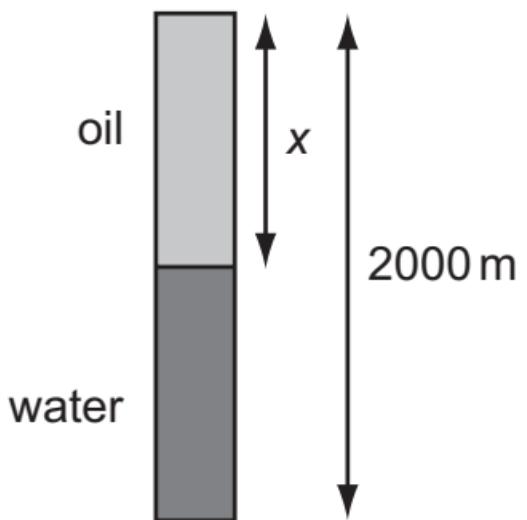


- 21** A bore hole of depth 2000 m contains both oil and water as shown. The pressure at the bottom is 17.5 MPa. The density of the oil is 830 kg m^{-3} and the density of the water is 1000 kg m^{-3} .



What is the depth x of the oil?

A 907 m

B 1000 m

C 1090 m

D 1270 m

- 22** What is represented by the gradient of a graph of force (vertical axis) against extension?