

22 The Mariana Trench in the Pacific Ocean has a depth of about 10km.

Assuming that sea water is incompressible and has a density of about 1020 kg m^{-3} , what would be the approximate pressure at that depth?

A 10^5 Pa

B 10^6 Pa

C 10^7 Pa

D 10^8 Pa

23 An elastic material with a Young's modulus E is subjected to a tensile stress. If Hooke's Law is