

My name is: _____

WORD PROBLEM 1, *BOUNDARY-LAYER THICKNESS*

Calculate the boundary-layer thickness over and shear stress on a flat plate 1 mm from its upstream edge under a free-stream velocity of 1 cm s^{-1} . Calculate them for a 50 cm s^{-1} free-stream velocity 1 m downstream from the leading edge. Specify your choices of equations and the reasons. Assume seawater of 35 salinity at 20°C .

Due in my mailbox (physical or electronic) by 0900 hours Monday, 15 September.