

- 6** A jet of water of density 1000 kg m^{-3} leaves the nozzle of a hose of radius $2.0 \times 10^{-2} \text{ m}$. The water is directed perpendicularly to the wall at a speed of 0.50 m s^{-1} . Assume that the water does not rebound.

What is the force exerted on the wall by the water?

- A** 0.314 N **B** 0.628 N **C** 1.27 N **D** 15.7 N