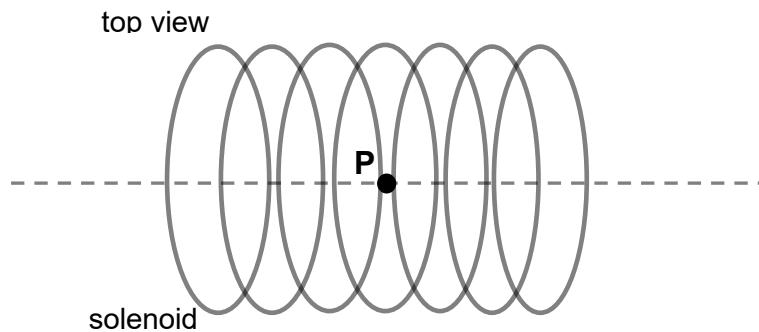


- 25** A solenoid with 300 turns and a length of 20 cm is shown below. The diameter of the cross-section of the solenoid is 2.0 cm.



What is the magnetic flux density at point P on the axis of the solenoid when a current of 0.50 A is passed through the solenoid?

- A** $9.4 \times 10^{-6} \text{ T}$ **B** $1.9 \times 10^{-4} \text{ T}$ **C** $9.4 \times 10^{-4} \text{ T}$ **D** $9.4 \times 10^{-3} \text{ T}$