

Ampere's law

A cylindrical conductor with radius R carries a current I_0 . The current is uniformly distributed over the cross-sectional area of the conductor. What is the value of r where $B(r)$ is maximum?

- a) $r = 0$
- b) $r = R$
- c) $r = R/2$
- d) $r = 2R$
- e) I don't know

