Magnetic field in the inner conductor of a coaxial cable. For the coaxial cable from the previous question, assume that the current intensity in the outer conductor is decreased, while keeping the current in the inner conductor unchanged. As a result, the magnetic flux density at every point of the inner conductor (not considering the points at the conductor axis)

(A) increases.
(B) decreases.
(C) remains the same.
(D) need more information.

Solution: (C)
Answer: (C)