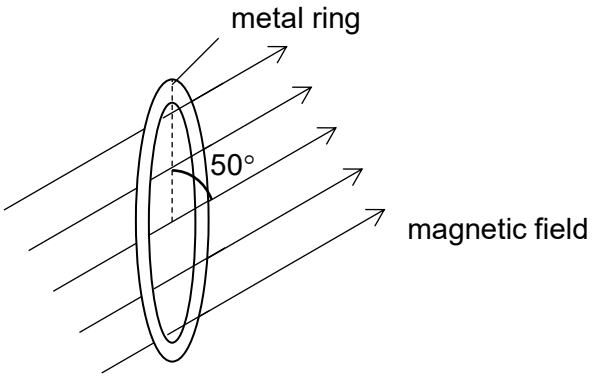
23 A uniform magnetic field directed at 50° to the plane of a circular metal ring passes through the ring of diameter 0.50 m and resistance 3.0 Ω, as shown in the diagram.



The magnetic flux density through the ring decreases by 4.0×10^{-5} T at a constant rate in 2.0 s. During this change, what is the current induced in the ring?

A It remains constant at 1.0 μA.

B It remains constant at 1.3 μA.

C It increases from zero to 1.0 μA at a constant rate.

D It increases from zero to 1.3 μA at a constant rate.