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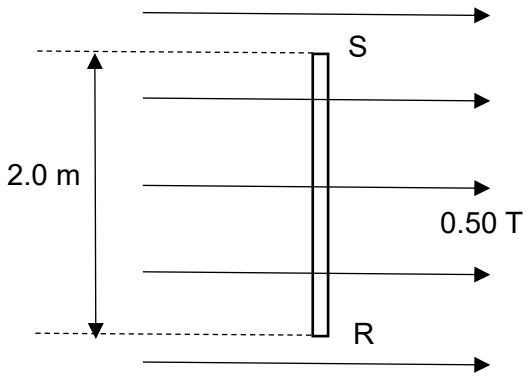
The diagram shows a current-carrying conductor RS of length 2.0 m placed perpendicularly to a magnetic field of flux density 0.50 T. The resulting force on the conductor is 1.0 N acting into the plane of the paper.



What is the magnitude and direction of the current?

A

1.0 A from R to S

B

1.0 A from S to R

C

2.0 A from R to S

D

2.0 A from S to R