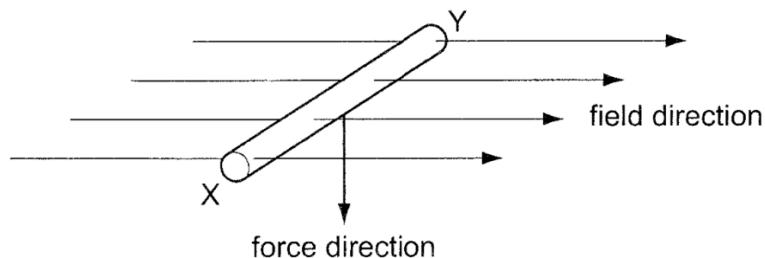


- 24** A current-carrying conductor is placed at right angles to a uniform magnetic field of flux density 0.50 T. A 10 cm length of conductor lies within the field and experiences a force of 2.4 mN.



What is the direction of electron flow and rate of flow of electrons in the conductor?

	direction of electron flow	rate of flow of electrons / s
A	X to Y	4.8×10^{-2}
B	Y to X	4.8×10^{-2}
C	X to Y	3.0×10^{17}
D	Y to X	3.0×10^{17}