

Question 2 (5 marks)

An electric motor is shown in Figure 2.

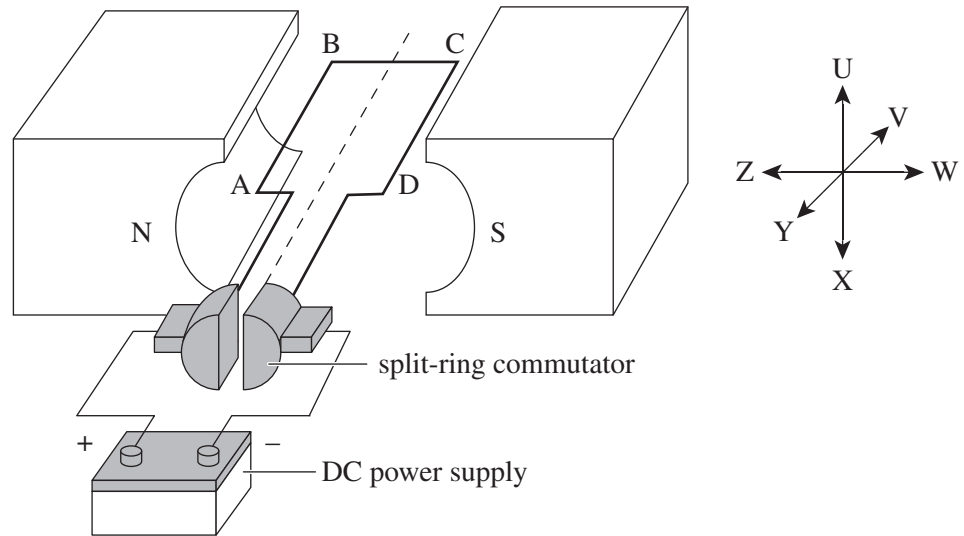


Figure 2

Data

battery voltage	6.0 V
number of loops in coil	20
resistance of coil	5.0 Ω
magnetic field strength	0.50 T
side lengths JK and ML	10 cm

- a. Determine the size and direction (U–Z) of the force acting on the side CD.

3 marks

N	Direction
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