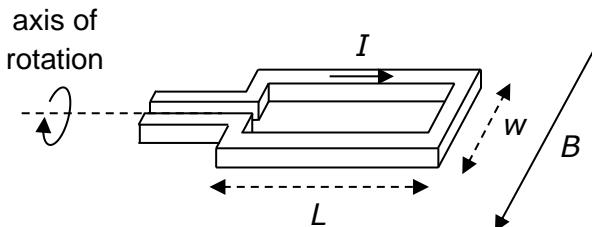


- 24** A rectangular coil of length L and width w carries a current I . It is placed completely in a uniform magnetic field of flux density B and the direction of the field is parallel to the width w , as shown below. The coil rotates about a horizontal axis.



What is the *maximum* torque experienced by the coil?

A $\frac{1}{2}BILw$

B $BILw$

C $2BILw$

D $4BILw$