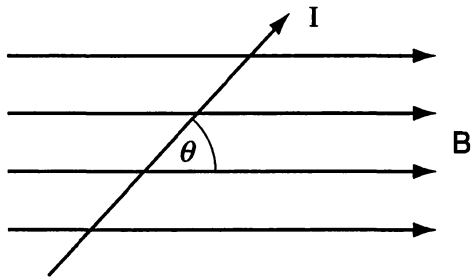
23 A wire carrying a current I is placed in a magnetic field of flux density B.



How is the magnitude F of the force acting on the wire related to the angle θ that it makes with the field?

A $F \propto \theta$

B $F \propto \sin\theta$

C $F \propto \cos\theta$

D $F \propto 1/\sin\theta$