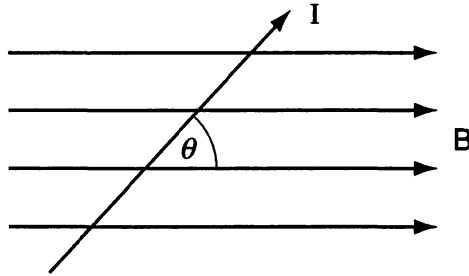


23 A wire carrying a current I is placed in a magnetic field of flux density B .



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

24 Two parallel wires, X and Y , are placed in a uniform magnetic field of flux density B . The wires are perpendicular to the field.