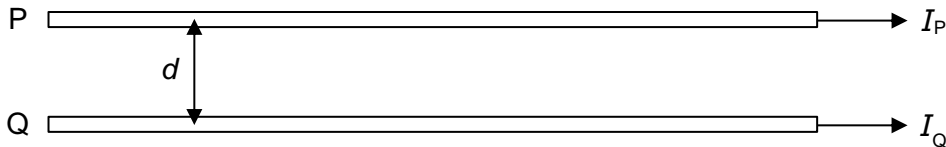


- 23** Two infinitely long, parallel conductors P and Q are carrying currents  $I_P$  and  $I_Q$  respectively. They are separated by a distance  $d$ .



The magnetic force per unit length exerted by P on Q is

- A**  $\frac{\mu_o}{2\pi d} I_P I_Q$       **B**  $\frac{\mu_o}{2\pi d} I_P^2$       **C**  $\frac{\mu_o}{2\pi d} I_Q^2$       **D**  $\frac{\mu_o}{2\pi d} \frac{I_P}{I_Q}$