23 A 150 mm long wire is at right angles to a uniform magnetic field and carries an electric current. When the current in the wire is increased by 4.0 A, the force acting on the wire increases by 3.6×10^{-3} N.

What is the magnetic flux density of the field?

A 6.0×10^{-6} T   **B** 6.0×10^{-3} T   **C** 1.7×10^2 T   **D** 1.7×10^5 T