- Electric currents: I_a, I_b

- Magnetic field generated by line a: $B_a = \dfrac{\mu_0}{2\pi}\dfrac{I_a}{d}$

- Magnetic force on segment of line b: $F_{ab} = I_b L B_a$

- Magnetic force per unit length (attractive): $\dfrac{F_{ab}}{L} = \dfrac{\mu_0}{2\pi}\dfrac{I_a I_b}{d}$