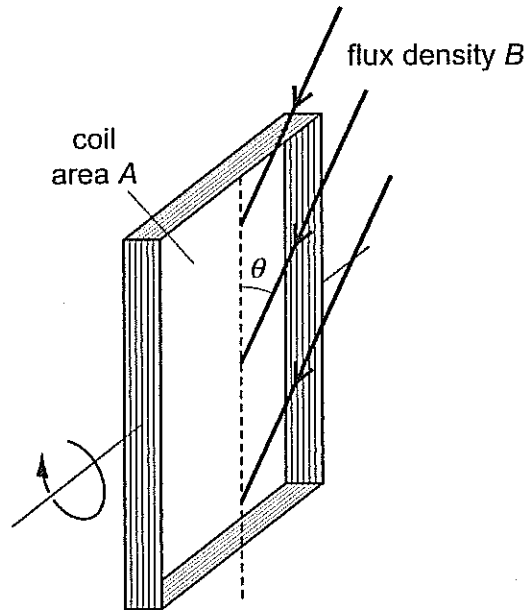


32 A coil has area A and n turns.

A uniform magnetic field of flux density B acts at an angle θ to the plane of the coil, as shown.



What is the change in magnetic flux linkage when the coil rotates so that the angle θ is reduced to zero?

- A** $BAn \cos \theta$ **B** $BAn \sin \theta$ **C** $2BAn \cos \theta$ **D** $2BAn \sin \theta$