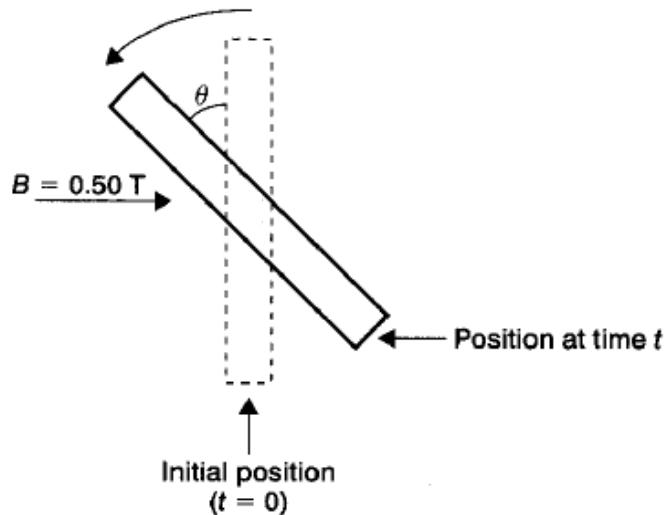


- 24 A flat circular coil of wire 30 turns, each of area 0.025 m^2 , is initially placed with its plane at right angles to a uniform magnetic field of flux density 0.50 T .



What is the magnitude of the induced e.m.f. in the coil when $t = 1.0 \text{ s}$, if the coil is rotating at 60° s^{-1} ?

- | | |
|-----------------|-----------------|
| A 0.20 V | B 0.34 V |
| C 0.38 V | D 0.39 V |