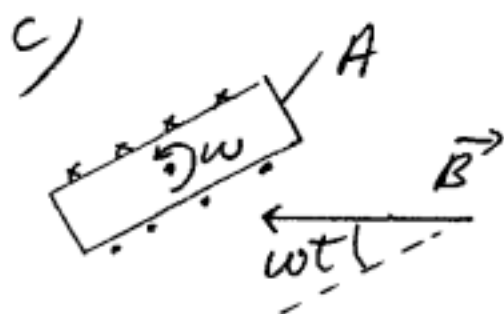


(4)



Fluxen gjennom hver vinding blir

$$\phi_1 = \oint \vec{B} d\vec{A} = BA \cos \omega t$$

slik at total flux blir

$$\phi_m = \phi_1 = N \phi_1 = n h B A \cos \omega t$$

Indusert elektromotorisk spenning blir følgende

$$\mathcal{E} = - \frac{d\phi_m}{dt} = \omega n h B A \sin \omega t$$

med maksimalverdi

$$\mathcal{E}_m = \underline{n h A \omega B =}$$

$$3 \cdot 10^3 \text{ m}^{-1} \cdot 0,1 \text{ m} \cdot 1,5 \cdot 10^{-4} \text{ m}^2 \cdot 600 \text{ s}^{-1} \cdot 0,5 \cdot 10^{-4} \text{ T} = \underline{\underline{1,35 \cdot 10^{-3} \text{ V}}} \\ = \underline{\underline{1,35 \text{ mV}}}$$