

Motional EMF

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EMF=? EMF= $-\frac{d}{dt}\Phi$ y=0 is init of bare $S\vec{B} \cdot d\vec{s} = \sum_{n=0}^{\infty} (6\cos(10t)\vec{a}_{n} \cdot dydz\vec{a}_{n} \times 10^{-3}$ = 55 5 5100 6 cos (10t) dydz x 10-3 = 6)(5)(y10c+10) cos(10t) x10-3

$$-\frac{1}{4t}SB.ds^{2} = -30\frac{d}{dt} \left[(y_{10c}+10)\cos(10t) \right] \times 10^{-3}$$

$$= -30 \left[(dy_{10c})(\cos(10t)) + (y_{10c}+10)(-10\sin(10t)) \right] \times 10^{-3}$$

$$= +3000\sin 10t + 300 y_{10c}\sin 10t - 30 \frac{dy_{10c}\cos 10t}{dt}$$

$$= -3000\sin 10t + 300 \frac{y_{10c}\sin 10t}{30t} - 30 \frac{dy_{10c}\cos 10t}{30t}$$

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EMF = 3000 sin10+ +300(0,2 sin 10+) sin10+ - 30(200010+)× = 3 sin 10t + 0.06 sin2 10t - 0.06 cos210t $EMF = 3 \sin(10t) - 0.06 \cos(20t)$

$$\Rightarrow \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{a} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{B} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} \vec{b} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t} = -60 \sin 10t \vec{b} \times \frac{\partial}{\partial t$$

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