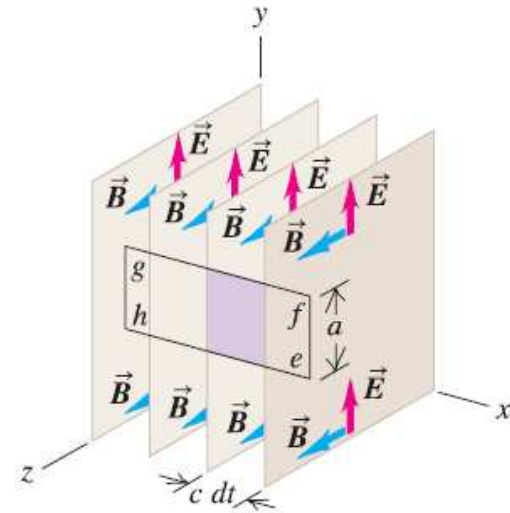


What is  $\oint \vec{E} \cdot d\vec{l}$  ?

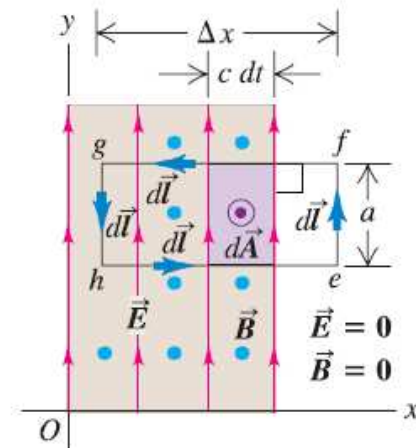
(a) 0

(b)  $E_y(x,t) \cdot a + E_y(x+\Delta x,t) \cdot a$

(c)  $-E_y(x,t) \cdot a + E_y(x+\Delta x,t) \cdot a$



(b) Side view of situation in (a)



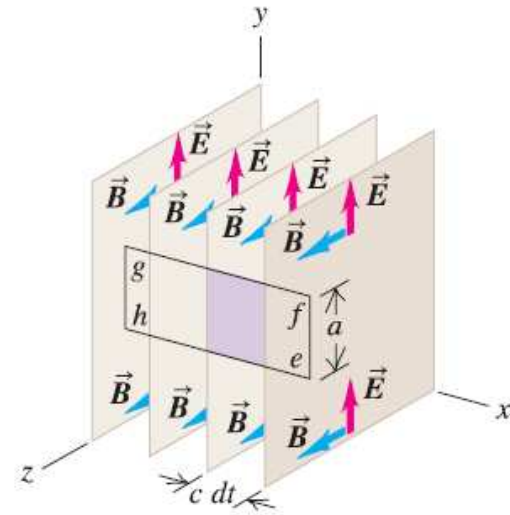
What is  $\Phi_B$  ?

(a) 0

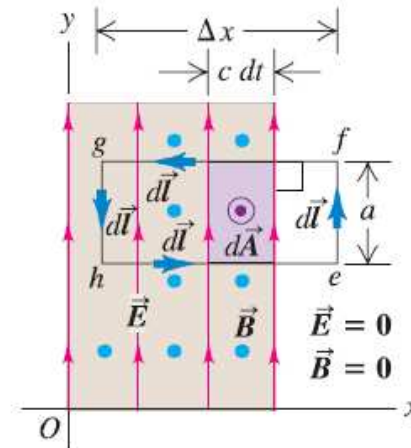
(b)  $B_z(x,t) \cdot \Delta x$

(c)  $B_z(x,t) \cdot a \cdot \Delta x$

(d)  $-B_z(x,t) \cdot a \cdot \Delta x$



(b) Side view of situation in (a)

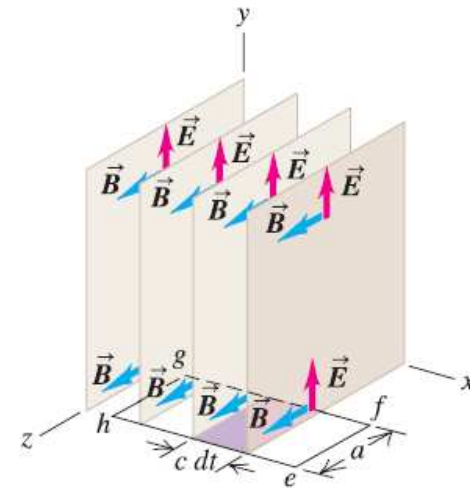


What is  $\oint \vec{B} \cdot d\vec{l}$  ?

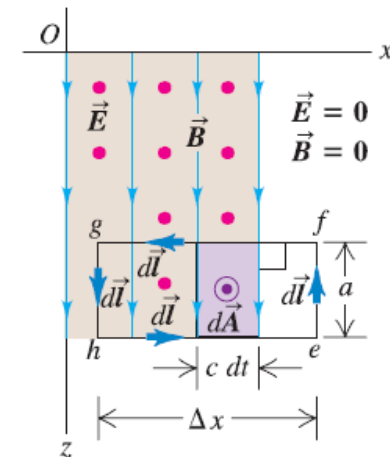
(a) 0

(b)  $B_z(x,t) \cdot a - B_z(x+\Delta x,t) \cdot a$

(c)  $-B_z(x,t) \cdot a + B_z(x+\Delta x,t) \cdot a$



(b) Top view of situation in (a)

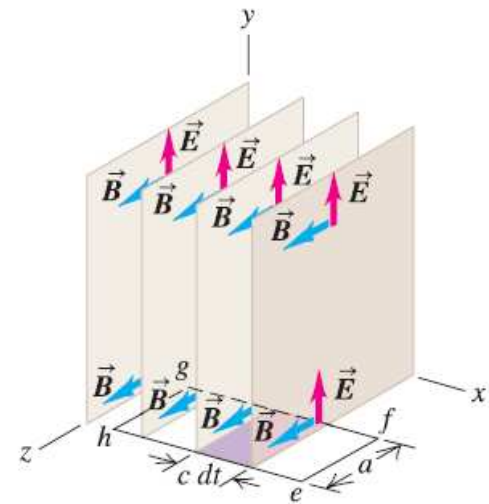


What is  $\Phi_E$  ?

(a) 0

(b)  $E_y(x,t) \cdot a \cdot \Delta x$

(c)  $-E_y(x,t) \cdot a \cdot \Delta x$



(b) Top view of situation in (a)

