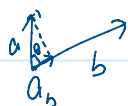


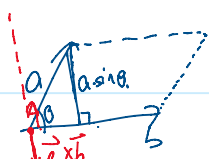
拖堂 10min

叉乘? (外积)

what is "X"? $\vec{a} \cdot \vec{b}$

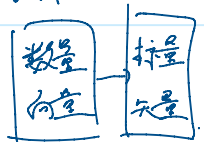


$\vec{a} \times \vec{b} = \text{向量}$. $\vec{b} = a_n \cdot \vec{b} = |\vec{a}| |\vec{b}| \cos \theta$ "做功"



\vec{a} 与 \vec{b} 构成平面的面积

$|\vec{a} \times \vec{b}| = |\vec{a}| |\vec{b}| \sin \theta$



方向? 面积的法向"右手定则"

四指指向 \vec{a} 方向, 卷向 \vec{b} 方向, 拇指即结果方向.

~~左手螺旋定则 左手 - 右手~~

叉乘!

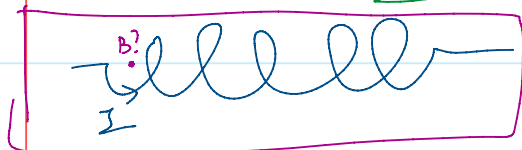
① 电生磁

毕萨定律

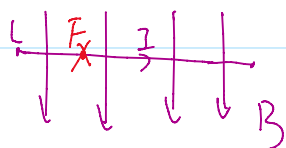


$B \text{ 方向} = \vec{I} d\vec{l} \times \vec{r}$

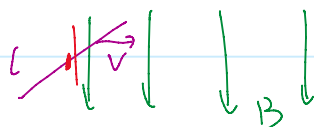
" $B = I \times r$ "



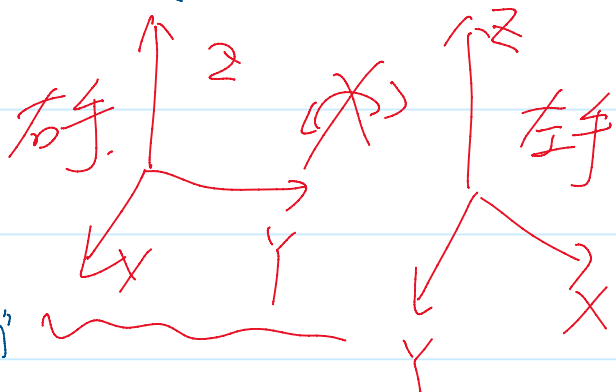
② 磁生力. $\vec{F}_A = \vec{B} \times \vec{I} \cdot L$



③ 磁生电 $\mathcal{E} = \vec{v} \times \vec{B} \cdot L$



叉乘建系



"右手系" $\vec{X} \times \vec{Y} = \vec{Z}$