数学作业纸

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第一次作业

复振幅:

③ 腹时:

$$sinpz sinwt = -\frac{1}{2} [cos(\beta z + wt) - cos(\beta z - wt)]$$

复振畅:

$$\dot{U}(t) = -\frac{1}{2} \left[e^{\hat{j}\beta t} - e^{-\hat{j}\beta t} \right]$$

③瞬时:

复振鸲

$$\dot{U}(7) = e^{-\alpha 2} - j\beta 2$$

瞬时:

即用:

$$(E_R) = E_R \cos \omega t - E_R \sin \omega t$$

 $(E_R) = E_R + i E_R$

1-2

$$u(z,t) = cos(wt+\beta z) - sin(wt+\beta z)$$

@ i(2) = j sin \$2

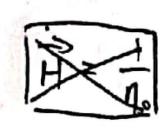
$$= \frac{1}{2} \left(e^{iR^2} e^{-iR^2} \right)$$

$$= \frac{1}{2} \left[\cos(wt + \beta z) - \cos(\beta z - wt) \right]$$

$$(3) \dot{V}(z) = e^{iz} e^{i\beta z}$$

$$u(z,t) = e^{uz} \cdot \cos(\omega t + \beta z)$$

$$(4) \stackrel{.}{E} = \stackrel{.}{i_{x}} (5+3i) + \stackrel{.}{i_{y}} (2+3i)$$



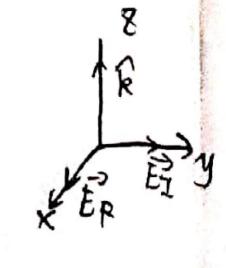
线极化波

②解:
$$\vec{E} = \hat{\eta}_X E_0 \cos(\omega t - \beta z) - \hat{\eta}_Y E_0$$

 $\vec{E} = (\hat{\chi}_X + j\hat{\eta}_Y) E_0 e^{-j\beta z}$

传播方向: 十五方向

$$=\frac{E_0}{1_0}(\hat{y}-j\hat{x})e^{-j\beta\hat{t}}$$



$$|\vec{E}_R| = |\vec{E}_1| |\vec{E}_R \cdot \vec{E}_1 = 0$$

查旋圆极波



扫描全能王 创建