

$$\phi(\bar{r},t) = \int \frac{d\omega}{2\pi} e^{-i\omega t} \phi(\bar{r},\omega)$$

$$\phi^{\infty}(\bar{r}, \omega) = \sum_{n} \phi_{n}(z, w) e^{iK_{xn}x} e^{iK_{yn}(y)}$$

$$K_{yn} = \sqrt{K_{sp}^{2}(\omega) - K_{xn}^{2}}$$

#331, p. 5193 -
$$E_p = E_o(\hat{x} + i \sin_3 t 2t \hat{z})e^{ikp(\hat{x} - t\hat{e})}$$

$$I_p = \frac{aE^2}{7\pi |R_p|K_p^t}$$

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$$E_{II}(F, \omega) = -\overline{P}_{I}\phi^{*}(F, \omega)$$

$$= (-ii)\sum_{n} \phi_{n}^{\infty}(F, \omega) (K_{xn} \hat{x} + K_{yn} \hat{s}) e^{i(K_{xn} \hat{x} + K_{yn} \hat{s})}$$

Emitter enong of Soldt (E(F,+))2 = latt) dw(e = (F, w).) dh' (F, w) e / - - 00 ZIT | E(C) (F, W) 2 りの イム (下心) ω (E, ω) 2 Enitted enogy rand = 500 das vn:t of transkerse = 500 das ZT (Rp Kplw) / Jda Ea, eint = C (E) = (1) (E(w)) = TC N particles $\frac{1}{NP_{n}(\omega)} = \frac{1}{t} \frac{1}{t\omega} \left(\frac{\omega |E_{o}(F, \omega)|^{2}}{i\pi |P_{p}| K_{p}^{2}} \right) \frac{\alpha N}{\sin \Omega}$ = E Jodan Maca, to N sois | - 2 1 ada Paces N # sp's per writ frequery (congy)

