C. (-jk ejkr - e-jkr das + k'Azi = 0 122 + 2 ONE + RAZZ =0 ·AZI, AZI是方程的解 VXII = - 2 H, - M, , VXH, = ŷE, + J, VX E2 = - 2 H2 - M2 , VX H2 = YE, T2 H2. VXE =- & H2. H, - H2. M, E, · V × H2 = JE, · E, + E, · I, 1. I. VXH2-H2. DXE1 = JI. E2+2H2. H, +E. J2+H2.M. 1: V. (H, XE,) =- V. (E, XH2) = JEI-E,+ FH2. H, +E, T2+ H2.M, E2. DXH, = JE2. E+E2. J. H. · V × E2 = - 2H, · H2-M, · M2. In VXH,-H, VXE2 = 9 F2 E + 2 H. H2+ E2 J. +H, M. 1. - 7. 1E, x BH2 - F, x H, ) = E, , J2+ H2. M, -E2, J. - H, M

Q.  $sin y = \sqrt{1 - (sin \theta \cdot ros \phi)^2}$   $E \varphi = j \eta \frac{k To (\theta - j k r)}{4 \pi r} \cdot sin y = j \eta \frac{k To \cdot l e^{-j k r}}{4 \pi r} \cdot \sqrt{1 - (sin \theta \cdot ros \phi)^2}$ Hx = j kJole-jkr sin y = Ex 0 (1-sin2 cos24) Prad = Vo 127/2 (1-sin20. 1050). sino dad q = Vo-372. Do = 471/2 =1.5 4.5  $a. \Psi = 0^{\circ}$ ,  $E\varphi = j\eta \frac{pJ_0le-jkr}{4\pi r} \sqrt{1-si'r^2\alpha}$ 、Ep只有自治何 4.29. (a) Prad = Pin =1 · Ulipa = Vo Do = 0.131 16) Waip = Wir & 5.23 x10-4 w/m2 Wo = 10 x 3.183 x109 W/m2.