11) R = JW2UEa = W2UE0 - 140(1+0.32) € ≈ Norue. 740x 0030-15 + 25/n.0.15) tan 82 = 4.49×108 (3) = 80 Eo + 0.04 E 90> 90 WNUE0 . 80+ 0.04 i 1 0.04 >> 80 2 RR + 0.02242 KE PikRY Hcm = the 0.112 = 2.42 x10-11 W/m2.

Pzz 1. dp = Nous 22x10-8m 13) P2,4 E. = 定 cos (wt-kx+年) = x Eo cos (wt-kx-年) XJI Eu cost wit = 已是线偏波 八起附证、

```
P3. z
 E= 408.+ i &
            c = W Juo Mo · J40
(2)
      + x = 0.16 = 0.899×106Hz
37
   dp = 125×105×45×107×354×107 28,46×10-6
  50p = 4.24x10-5m
    不句多學
    f=100Hz, dp= Justio = 25.2m
     =5MHz, dp == 0.11m
157 dp = Jun. 8 = 7,96 m
  1 <3> = E x H = e-aker e-ker = e-2ker
   1 <57 Y=7.96 = 1.22x 10-11
```

S.1

11)
$$R = \frac{1-P}{1+P}$$
, $T = \frac{2}{1+P}$
 $P = \frac{1}{1+P}$, $T = \frac{2}{1+P}$
 $P = \frac{2}{1+P}$ = \frac{2}{1$

(3) VXE(F) = ZWB(F) B(P) = = y E o KI e - KIZ e ckrz - y E o e - KIZ . zkrez krz R = KR+ZKI = W/UOE = W/UO(ER+ZEI). (H(7) = JEO(kIP-K) = JUEO(KI-ikR) E-KIDiKR) Z. iEk = kr-iks = krtikz · F(P)= My NOEO RE-KZ 1. Oc = == (2) Ot+Oi === 2sinoi = 53 sinQt sinoi ≈ 0.65 de = 0i = 20.71 _(3)′能 $\frac{n_1}{tan}$ $\frac{n_1}{n_2}$ $\frac{n_1}{n_2}$ sind = n. 据是 n, =1, n,=2 R1 Q c = 30° 6b = arctan (the tunde) 0267

