7.1 = ko / 1+ 2 w E. RAXER SING == = koli weo = koliweo (1+2) = kzk+ikzI KIR = | Zwesin & 20 当一般情况时, ktx a、kix 丰口 由于此似, 经少年并不担同 Kis =- KRS 八十尺三0 R=-1 八昆=-(三分+三分+2分) e治 圆偏振新印相反 8 = 0

P7.4 101 由左图,φ =202-2(0,-02)· = 2 (202-01) (b.) sing, = n sing = 1. Q2 = starcsin(sing) 1. φ = 2 (2 arcsin sino -0,) = do = 0 = , do [2 arcsin sino! -0,] = 0 1. Q, = arcsin (4-n2). 当的=学四寸, sino=0.86 1. 9 2 42° (0) Q1=59.58°, Q2=40.42° 15 Pmax = 42.52°, Os = 1375 1. 9mox =40.78°, Q==139° 0, =58.890 0, =39,64°

18.1 nisinoi = nt sinot , Ot = 990° · sinQ; = 共 □ □ □ 0.9999861887 ≈1 下方空气层密度较低,且小品界角几乎为90°,几乎不发生全反射, 故岛在下方形成扩射的虚像,等致海市蜃楼 P8.Z NUO E (a) $O_B = \arctan\left(\frac{n_2}{n_1}\right) = \arctan$ = arctan3 0271.5 (b) 1至直于入射面的分量会被反射,平行于入射面的分量发生折射. E = Eiri + Eiri 至白于入射平面的电场分量会被放射,平行于入射平面的电场分量

```
P8.4
 nisinai = nisinat, oitot ====
  1. 08 = arctan (1) 0255.590
  产平行于入斜平面的分量能通过,原因与P8.2相同
P8.5
(a) OB = arctan (\frac{N_2}{N_1}) = arctan (\frac{1}{\sqrt{3}}) = 30°
(b)
     Ot = arctan(\frac{Rts}{Rtx})
      n. sin Qi = N2 sin Qt
    " Qi = arcsin [ nz sinQt] = arcsin[ nz sin(arcton kts)].
 4. Et = Ety + Etm.
```