yohandi - physics assignment 15

7. V= X5 = 凝 压

V1= >1f1 =600.L

V2= x2f2=608.l

V1 = 600

 $\frac{\gamma_1}{\gamma_2} = \left(\frac{600}{600}\right)^2 = 3 \quad \gamma_2 = 1.03 \quad \gamma_1 \quad (3\% \text{ increase})$

 $192)_{A} I = \frac{P}{A} = \frac{30}{41\pi (190)^{2}} \frac{W/m^{2}}{m^{2}}$ $\approx 7.37 \times 10^{-5} W/m^{2}$

b) Pm= I.A = 7.37 × 10-5 × 0,750 × 10-4 W = 5.53 × 10-8 W

20, sma= x= =

since vs=2v, M=2

herght = S . tan(=) = 660. 1/3 35,4 m

= 13500m

222) f=n. \(\frac{1}{4L} = \frac{3V}{4L} = 286 H2

b) $\gamma = \mu v^2$ = $\mu (2f.l)^2$ = $4f^2.lm$

= 1035,3 N

262) Sm = $\frac{2\times5\times10^{-3}}{343.1.21.1000\pi}$ m = $3.64.10^{-9}$ m

b) k = 2 = 2 = 9.16 /m

c) w=2rf=3142 1/s

d) Sm= 3u3 1,21 Sm= 7.37.10-9m

e) K= 343 K= 5,81 /m

f)w'=w=3142 1/5

312) f= 1560.103 5470+72 HZ.

b) f=1,595.103 HZ 5) f=1,595.103.5470-42 HZ

=1.630 103 Hz.

36. 图如果如果

dp = (2+)2 . dv

(部) = fi2 = 科

502). Sm = ΔPm = 7,99.100 m

b) I = 1. P. VW2 Sm2 = 7.53. 10 -5 W/m2

58. 1= ax

L=0,5,1.5,...

a) smallest 9 = 0.5

b) third smallest 9=2.5