11-26 X = 100 = 50HZ W = 20 = 22x50= 1002 rad/s 以向石径幅前次·y.(At)=0.01sin(不大-100不十) 向左供输入对波: Y2(以十)=0.01sin(不大+100不大) 11-27 105 (574)=0 カスス=(n+=)ス 1= 2/4) (n=1/20, 1,2/1) n=0时,有对=0./m, n=1时,在对=0.3m 风波节的经验为对=a/n 和对=a&o·3m。 2) W=40rad/s, A.T= 20= 0-atc K= 52 rad/m, 12/2= == == = 0.4m f=+=20H2

V=2f=20x0:4= 8m/s y(n, t) = 0.041 costan cos 1/1020 A=0.045 V(xit)=0.045 605 522 × (-462)4n(407t) WXX) = \ -0.075x402000(522)sin(402t) \$400t=na, t= 40 (n=0.1,2,") 那 t=0、t=0.025、t=000gt,强上所有点,连度为0, 11-28 5 V-VS = 500 x 340-25 = 2539.] Hz SV416 = 9500 x 340+25 2 465.] Hz 11-32

= 33-30 = 30 20.218 m 刘 = 1080 x 331+Ets -26 9544HB 3 V= 331-6=266m/s 4 44 m × 0.2787m 30/ 26 28 m -x 1080= 990Hz - X1080= 1421Hz 3) 反射波即波速力的推定生产的速度,即331%

4)
7p=331-65 =0.18 m
11-34
对于发射海探测器的波腾及先以建设、线线、则有
f'= f(H-1/2) it
潜和连初作一个移动流原,将起声波以来了发射回冲探测器测有
f"= * (H 1/s)
观的为于'
fin= f"-f =241 12
PP(14 V)21-241
20000
[4 24 14 1 - 241
30800
$-2 \times 1 (1)^{2} - 241$
1 Vs (Vs) - 30000
The state of the s
V26.0250m/s
1