l'array 5, Ejercicio de anp-op en lazo abiento Los amplibiadores operacionales que no tienen retroalimentación siempre se saturan. Si Vo es positivo, entonces el Vs. 1 = 4 Vs.+ Si vo es negativo entonces el vs. 1 = 1 Vs.+ Si vo es cero, entonces el vs. 1 = 1 Vs.+ + Vsa = 90% (+vc) = 90% (12v) = 10,3V 500 1 >- Vsat = 90% (-vce)=98/6-12V)=-10.8V Vd= V - V = 5v-0v = 5v V341 = +V54+ = 10,8 V HIQU +vgt= 90% (+va)=90% (18v)=16.2v - Vsat - 90% (-vee) = 90% (-10v) =-16.20 Va= V-V = 0 - (5V) = -5V Vsu = - Vsut = - 16,2 4 tres = 901. (+vco) = 90°1. (100) = 9 v FLOU you at - Vsat = 900 h (-vee) - 90% (-104) = -9v Va = v1-U= -10v-10v= -20v Vsal = - Vsat = - av 764 +V50+ = 90% (+Vce) = 90% (15v)- 13,5V -Su - Usal - Vont = a01. (-vec) = 90% (-15v) = -13, 52 45V Vn-Vt-v7=5V-(-5V)=5V+5V=10V -LSV Vsal = + Vsat = 13.54

Emmand gurnsto 22300891 5°I + Vsat= 90 (+ vze)= 90% (400) = 90 HIOV - vsu = 90°1. (-veo)=40° L (-100) = -au Vp = v - v = 10 v - 10 v = 0 v VSII = TVSH = tav + Vsa+ = 90° h (+ Vcc) = 90°1. (120)= 10.80 -vsa+= 90% (-vee)=901. (-120)=-10,80 Un=V1-V= (-8v)-(-Su) = -505v=0v Vsal = + Vsal = + 10,8 V NG-1 10 F) - 10 F N-10 E P