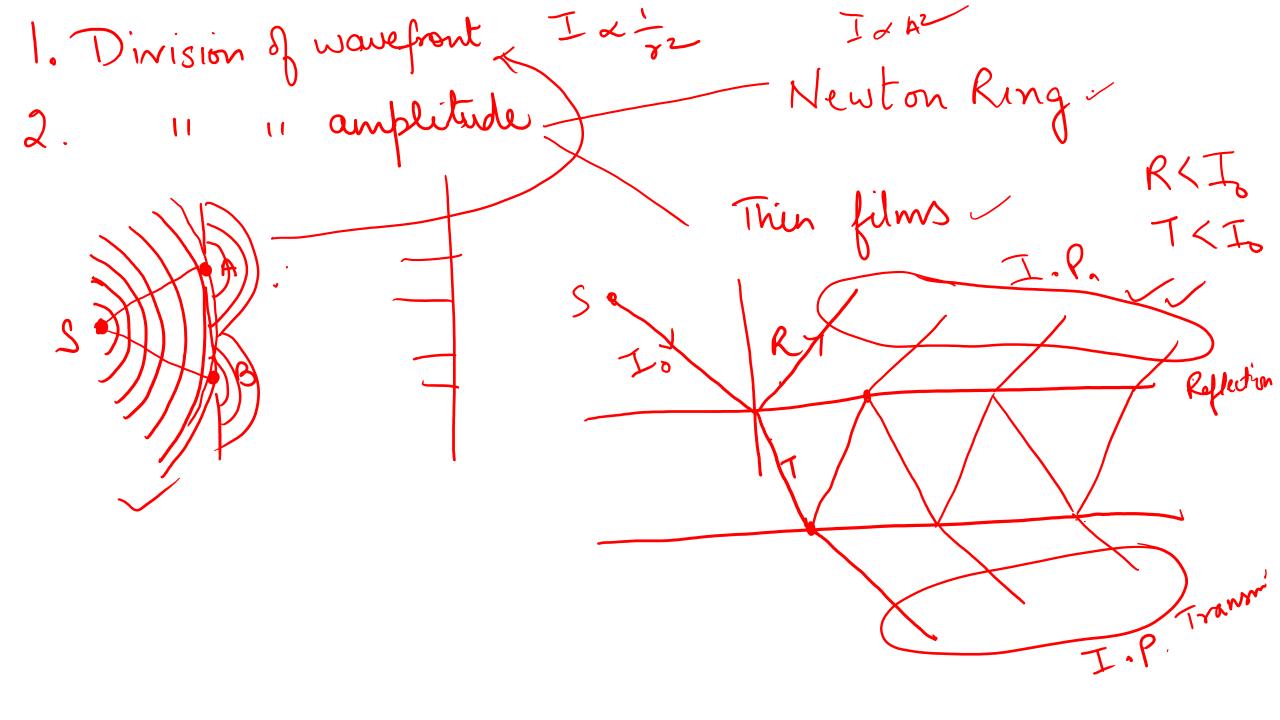
Interference in Thin Films

Reflection

Transmission



Ray 2 - S/A + (AE+EB)+B00 4 (AE+EB)-AN+1/2 = 4 (GE+EB) - AN + /2 = 4 (GB)-AN + 1/2 = 4 (GM+MB)-AN = 4 GM + MMB - MMB AN= MMB

PD = MAGCOST = 24tcost + 1/2 Including reflection a A 24tcosr + 2 2 yt = 23 destruct. Dark bands.  $24t\cos h + \lambda = (2n+1)\lambda$   $24t\cos h = n\lambda$ 

Ray (D: SA + AE + EN + NP) Ray (D: SA + AE + EB + BF + FQ) .. PD = 4(EB+BF) - EN = 4EG - EN 4 = SINI EN/EF Sint EM |EF EN = MEM -Pn= 4(EG-EM)= M(MG)

°. PD = 4FGCOST = Qutcost Bright Fringe 24tcosh=Inj -24tcosr = (2n±1)2