张旭东 1201923 Week8 (41. Solution: C=Blog=(HNOB)= (1926(1+ PNOB)) (2 feg= log at Nos), gos= 15, 58-20, fix->0, glx->0 THE dfix = 1 Po B = - (Ithan MB2 $\frac{dg(x)}{db} = \frac{1}{B^2}$ $\lim_{R \to \infty} \frac{f(x)}{g(x)} = \lim_{R \to \infty} \frac{f(x)}{g'(x)} = \frac{P}{N_0(HP_B)} |_{H_2} = \frac{P}{N_0(H^2 + H_0)}$ 4.2 Solution: C=Blog_(HP/NbB)=toxIO 10g(1+10x 10) 2687Mbps doubling the received power: p_= 20 mW C = 8/092(HP./MB) = 50×106/92(1+ 20×10-3)=18884 10= C1-G0 = 6.28 Mbps doubling the channel bandwidth: B== 1001/11/12 (2=B2/092(HP/NOB)=loox of loge(H= 10x10)=7mbps. AC=C2-C1 = 013 Mbps. 4. Solution: (a) C=500Blg2(HY)p(Y)dY =B[= 19(H);) P(H)]=2,8881 XB=17.66 Mbps. (b) Pout = P(Y<)min), (6= (+ Pout) Blog= (HYmin), # For Vinin>2008, Pout=1, Co=0 For 13dBc/min 20dB, Pout = 0.9, Co = 0.1X20X10619z(1+Ymin); thit: Cot Vinn 中的单位不能de,需要经行换算 lodBe Min KisdB, pout=0.75, Co=0.25 Blg=(HV)min), make at Printigods. Pout told North acould, pout as. Co=asBlog2(H)/min) maxCo at /ministrale OdB</ri>
Dat= 025, Co=0.65 Blog=CH2hin) Maxico at this 2018 - solb Dine codB, Pout = 0.1, Co = ag Blog & Hilmin), marco atthin = colo DDmin <- solb, pout=0, Co=Blyz CI+Dmin), man Coat Vmin 2-5dB. Maximumat Dinin= walb, poutar, a=346x1014bps

