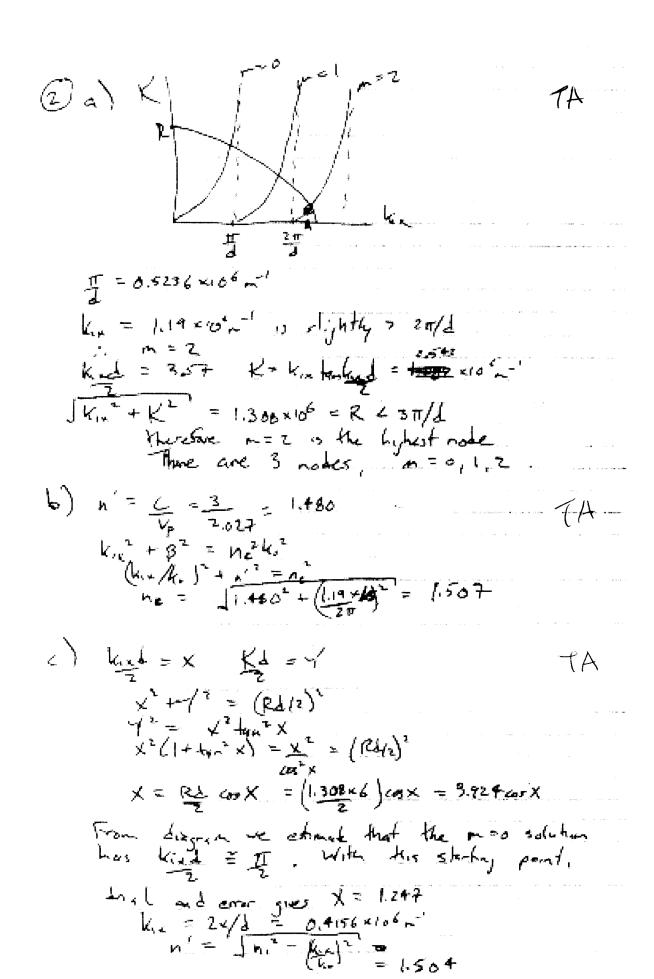
E4.06, It 4.76 CITICAL COMMUNICATION A09, 509 SILLITIMS 2007 a) New V4 2 405 V = roko Inc2-no = ro20 J2non 2.405 = (3 mm (2 m) /1.502 mm) 17+3 x01 gives An = 0.013 5) Since the Vnumber is proported to Jai-ni raising the An will increase the number of supported modes BW () 1600-2000 in 15 at the long writerith side of the attendant minimum, in this region interational vibrations absorbed the loss, esp 5:-0 stretching vibration 1) For an LED me estruck A & to be 2247 At rear temp this is ~ 50 meV The minimum convergy will be Eg 5 1.24 cu: mm/1.31 mm = 0.947ev CE
Then home = 1.24 ev: mm/(0.847+.05) = 1.244 mm AL = 1310-1247 = 66 nm e) Long hour systems work at ~ 1310 or BW 1550 nm namelenth. 5: with a bondyop of 1.1 eV is transparent at those werelenths CE - compiled example

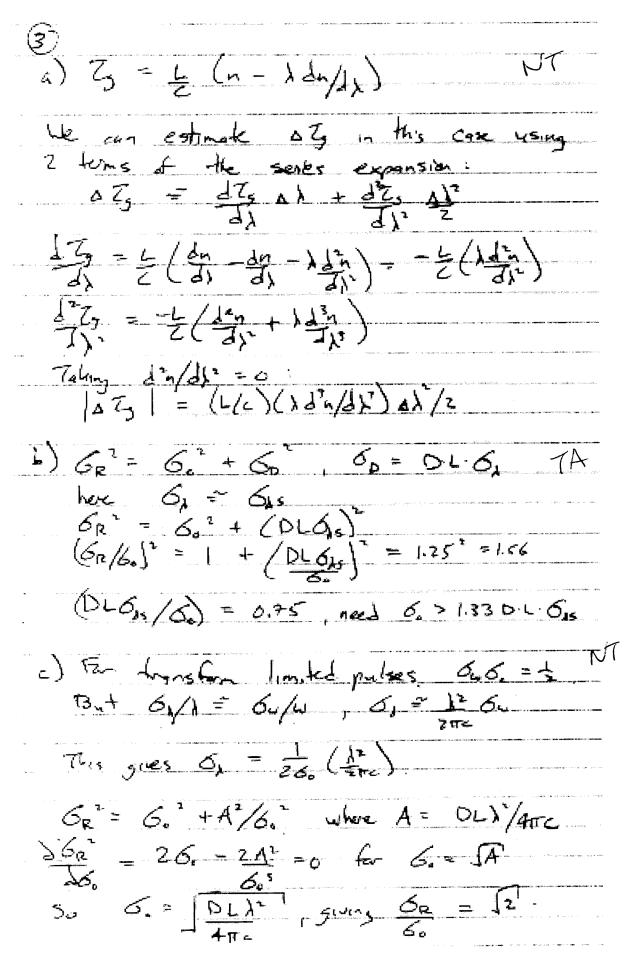
Bu = bookwork

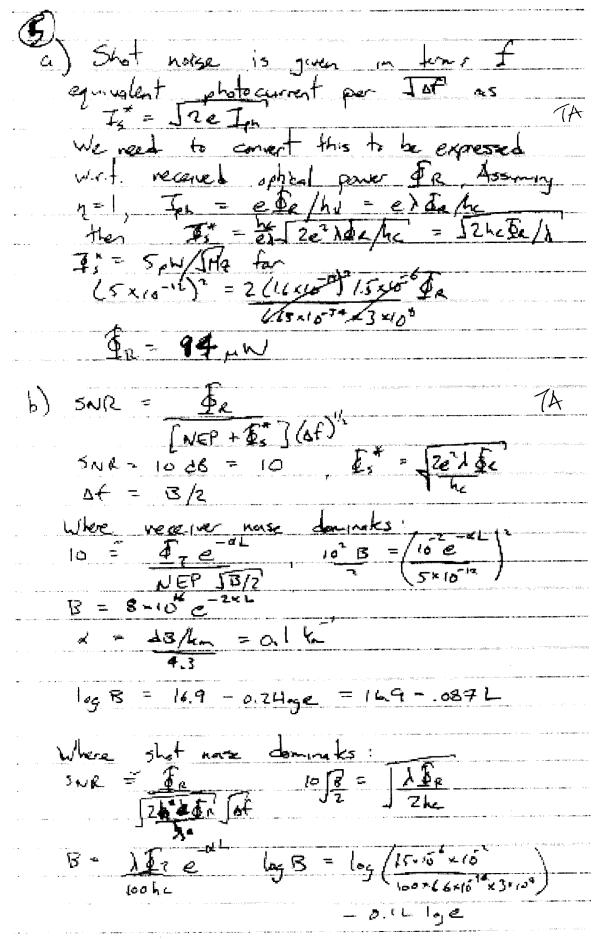
NT = new theory

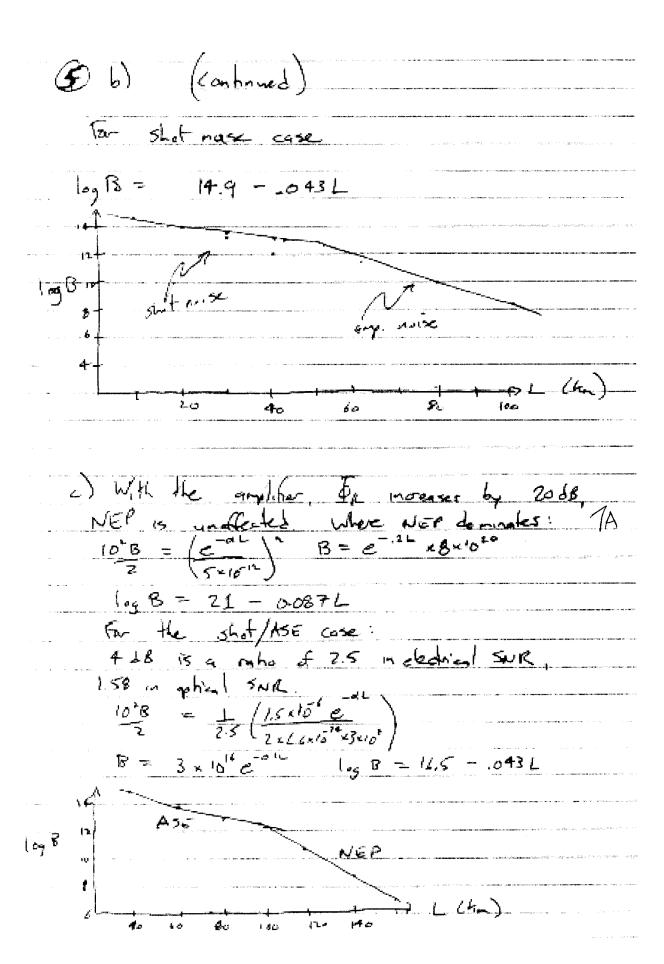
TA - theor application.

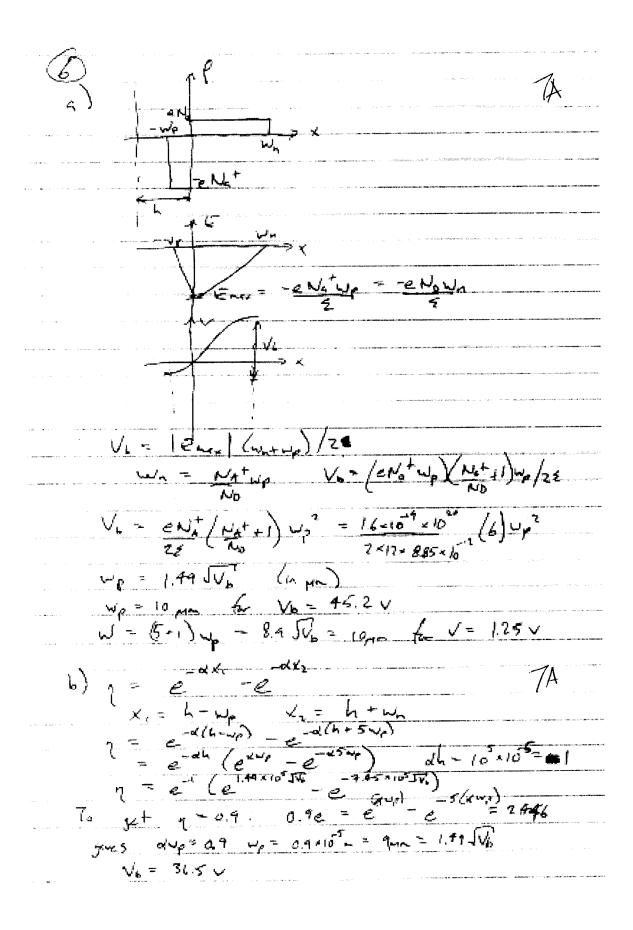
	5 - 28°
f) 40 Gbit/s (purely memory this are!) Limited by electronics & dispersion.  DFB (gers up galans as the reflective	BW
5) DFB (goes use gratings as the reflective	apternijoge ■
elements to form the resonant carety, which are a selective and so can have a much	BW
narrower spectrum than F-P losers.	MAL 2 No.
	tot South de
h) The maximum slope efficiency (q=1) for a laser is he In this case	CÉ
- <i>(</i> ·	ended comments
5mg = 6.63×103 x 3.×108 = 1.59 W/A 1.6×10-19 × 0.78×106	ANNE CONTROL OF
	omeron evil
() The pump laser houst be < I signal must be correspond to a strong absorption band for En	BW
that result in an efficient transition to the	Specific deal
netestable state and must be manufacturable	, at ins
as a high power leser diate	- Sale Frank
j) Conservation of power applies Input	E
-10 dBm = 0.1 mW first capact part, -20 dBm = 0.01 nW leaving 0.09 mW	and the second
on the other output = -10.46 dBm.	s. 1986
	man, g











C) If R & (residual p thickness) then NT

R = A

h-up

and we know C x I is. C = 3

Whop

(3nt whop = 6 wp

RC = AB/6

(h-up) hyp

For = a + a (Rc) = a = b (h-2mp)

Tor

wp = h = 5 pm