مدولاسون زاوی ای سیکنال میکانگذر زیردا در نظریکی

2016): A(1) Cos(uct, 416) (اوب لخفادای وایا می ایا که این ایا که این ایا ک فازلمفلملي ب (H) P(H): = 10H) = fc + = 24 (A) Whishorities 1) colinsol descriptions 20H). Ac 60 wet + PH) = A Ref eigh) y= AcCosoH) West's aliverse = 2 (Ties Q(+),, 150 lelle). 2(+) > [MOD] -> 2(16) - Ac 600(16) مدولاسعن فاز PM الملاعات با بارفازله علمالي وَآرِكِروْتُمات 9(1) = Part) « P<IN° voulen ceil Pa 1 isté il jai acH). Ac Colucta Parth)

FM (with and with and with a for when with a for when we for the could be with a for when we will be with a for which will be with a form of the will be with a fo

10) => xelt). AcGs (wet + (nfs) Tul)d)

ST = LAC

تول ارسالی دامذاب ا

PM	فازلمظمل (الماهم	وكان لعفدال (١١)			
	PaxH	for the following			
Fm	12 Po Str(2) 87	fc, faxH)			

مثال: برای سیکل ساء زیر مسالله و ۱۵ و ۴m و ۴m فازوفرکان لعظما ما درس

2H). A. A. (+)

e A vie (H)

PM 9611)

PA PH)

F(H)

felth fer Tadall)

+ Tadall)

+ Tadall)

+ Tadall)

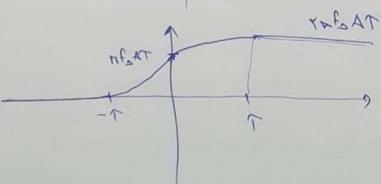
+ Tadall)

fc fctg fc

FM fcb), fc, forth

fc fc fc fc

9H) crafs fruids



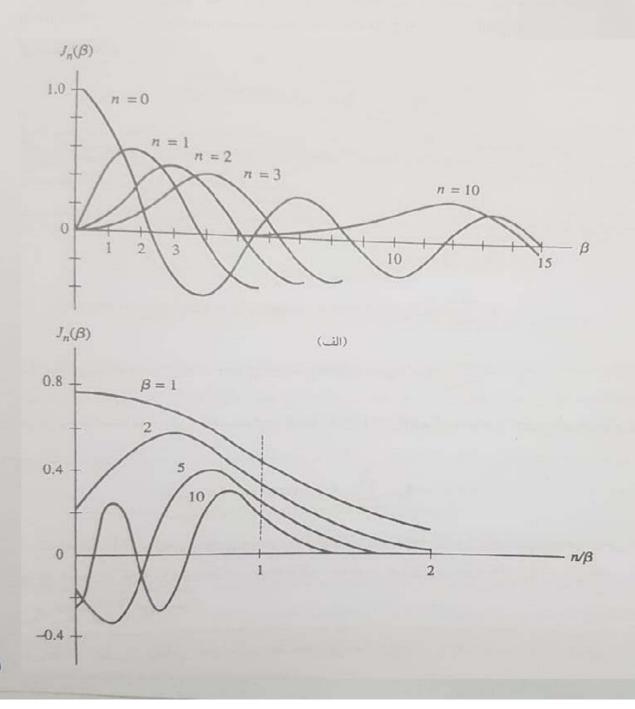


PM JISW 8/M) gxm 94H) = Ac63(4c++C+B) 3,(11d) = Ac6)(4c+ 5-6,20H) MOD FM 1) (181 ) 2/H) / WOU ) 2(H) かり、」をはりるよ J.H) = Ac60(4+ 28/11) = Ac60(4+ 7) MILL) fac RA رم سكالها: Alfamalla EM AMAMA AMAMA 

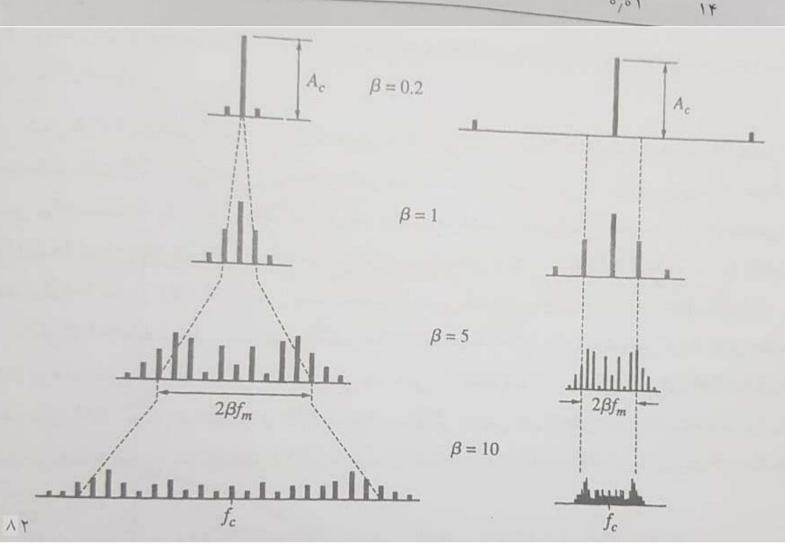
Whilfm , PM 2cH) = Ac Go(uct + P(b)) = xcill) Goud - Xcall) Sinuct Xc. (4) = Ac (6) \$P(t) = Ac (1 - - + PH)+ - 9 2cq(H). Ac Sm 9(H). Ac & P(H) - ( 9(H)) + - 4 PH) ((1) mis Gé > / Xcill) = Ac (NP) = AcP(1) Xc(f) = + Act8(f-fc) +8(frfc)] + JAC (Ø(f-fc) - Ø(frfc))  $\emptyset(f)_{2}$   $\begin{cases} \mathcal{L}_{X}(f) & P_{M} \\ -jf_{\Delta} & \frac{X(f)}{f} & F_{M} \end{cases}$ => (BT 2 CW) 2) See X (6) git rocal time dur ( ienby) X(f), in Tr(f)

andles I (dis) 10 mil mon die des des des des de la la mention de la contra del la contra del la contra del la contra del la contra de la contra del 2(4) = 1 Amsinumt PM => PAD. BSNUMT Ambount FM Deller siece B. { Am for FM Fm B<<1 ひかられかられるしか RCHOLACGOUNT - ACBSIUM SING = Ac Court - ACB CO (WC-Um) + ACB CO (WC+Um) & ALM) PHI SEM

2011) · Ac ( 6) \$11) 60 vct - AMPH) 5, wct 7 = Act GSBSHWMt) FOLICT - SM(BSHWMt) SINUCTY To I for to Stan E 2cH). A. Goluct + BSnumt), ARejeinct eiBsnumty eiBsnumt z E Cn eithalmt Cn. IS eiBsinumt einumt 14 T2 YE 9 WINTER QUE 6 Cn: = ( Pej (Bs.no-no) do.jn(B) 2cH) = A Refer x = jn(B) e Tranfat y ZACEGO (WCANUM) 6 x jn(B) Je(B)

Je(B) 

n	$J_n(\circ/1)$	$J_n(\circ/\Upsilon)$	$J_n\left(\circ/\Delta\right)$	$J_n(1/\circ)$	$J_n(Y_{/}^{\circ})$	$J_n(\Delta_{/^{\circ}})$	$J_n(1 \circ)$	n
0	1,00	0,99	0,94	o VV	-		" ( )	
4	0,00	0,10	0,74	°/VV	۰٫۲۲	-0/14	-0,70	0
Y			0,01	0,44	۰٫۵۸	-0,77	0,04	1
7			1, 1	0/11	۰,۳۵	0,00	0,70	۲
*				0/07	0,15	0,75	0,09	٣
۵					0/04	0,49	-0,77	*
۶						0,79	-0,77	٥
٧						0,15	-0,01	۶
٨						0,00	0,77	V
9						0,07	٥٫٣٢	
10	160						0,79	٨
11								٩
17							0,71	10
17							0,17	11
14							0,09	17
							0,01	12
							0/01	14



\* ACHI LE J (B) CO (WC+NUM) & = AC CONCERTUS)

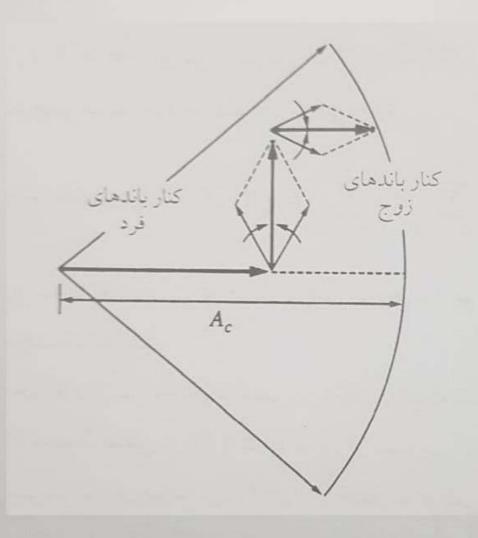
ACHI LA SINUM ( = ACTI B COTUM

ACHI LA SINUM

AC SINUM

AC SINUM

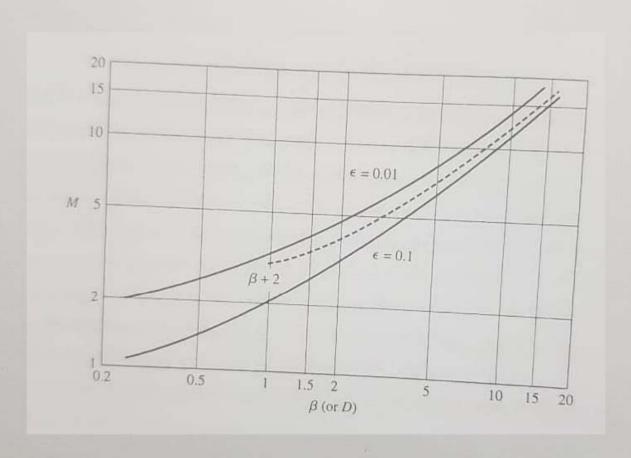
To Lot 16 Chies co substitution chief is a continued.





alborden while this to with the deside & H) = 100 65(4 × 2000 + 1.85 = 100 + ) 8(4) 5 (2 9(4) = 9000 + 10 62 LO LOOF Bekaner Fm Ac Ac B 57 2 = Ac + = (AcB) = = (-AcB) = = (1.1) = = (-(1.1) = = (-(1.1)) = (-(1.1)) = = 8..4,73 = 8..4,73 = 8..4,73 FM Lanto outland and 24), A, GOU, + A, GOU, t ZHI. Ac / GOX, GOX - SINX, SINX, GOLET - Act snakesak + God, snak) Shuch d, 2B, SNUT, B, CAFA 2(H). Ac EE Jn (B1) Jm (Bc) Go (We + N W1, MUC) to fint, himballseur Fc-fc fc feff 7 TTI Per Ferfm

εε (,1,1) | J | J, (β) > ε (ρωσιμές ρωσιμές Τα 3 < |(β) | (ε , 2 | 1 j, (β) | ) ε , τ Τα 3 < |(β) fm (Β) fm (Β) fm (Β) γ Μ (β) fm





Walley & (5 July 60). (6) M(B) & B+F By = Y(B+c) fm = Y(Amfa) fm c Y(Amfa+cfm) BT = Y(fatyw) 1xxx) ( < ) ( C/2) Dz FA => BTZYM(O) W BT: { YOU D >> 1 قايده كار ول DKY BT 2 / Y(D+1)W Y(D+1) W 720 PM Jr. M(PD) ), 1 BTZTM( D) W BT = Y(&+1)W INCOLORCHES WEITHER, BEVOLUE COST FM C/ 10/6 DE #1 2 VOKENZ & -> BT 2 Y (D+1) W 2 YI. KHZ

BT C T (D, T) W Z C. KHZ - DZ CZ PA - SOZ 9 WAZ



XCHI [H(t) (20H) Proside 26/4) · Ac e) 4/4) TLP(f) = XLP(f) H(f.fc) U(f.fc) IH(B) k. ki JOHH) = Ref YLpH) e Jucky -Cno.fc July assist-Ho(fofo)ulbelo)e (Korker) Eiro(tofotof) Tup(f), ko ejust. (XLp(f) E) tatif) + k, e-such. (jraf) XLf) Estatify SLP(+). K. e juct. 2(6-6,) + ki e juc e supl6-6,) 2(p(b-61) - d (Acej P(1-61)) = j Acej P(1-61) >2(1) = +1) = + (-6-6) + = (6-6) \ AH) 2 Act k. + 21 + 1-6,17 P(+) 2 (cofort) => AH) 2 Act k. + \( \frac{k\_1 \ F1}{k} \ \text{ x (H-b\_1)} \) الى ملى معرف ع فازم كافردار د كرميل مادنيت

المدرجات كلي اعوماج فازهم ا ych). A. IH(Pa) Cos(uct, and H(Be)) - horitage عال الرسادد مع و و کانس لعقال من کنه عشر کنه ی کان وی کرد کر سیکال ما PHI. Per forth) Glabal outslover to yold) = A = | H(fu) | 60 (40+ + 74) + (4060) (A(t)) mar [H(t)] A(H(t)] mar (NA) 2/5 (H(f) = xf ( fore i binit junt of the of (H(f) = & fc + & fc = (b) + & = + (H) اعوداع هاى العاديد،

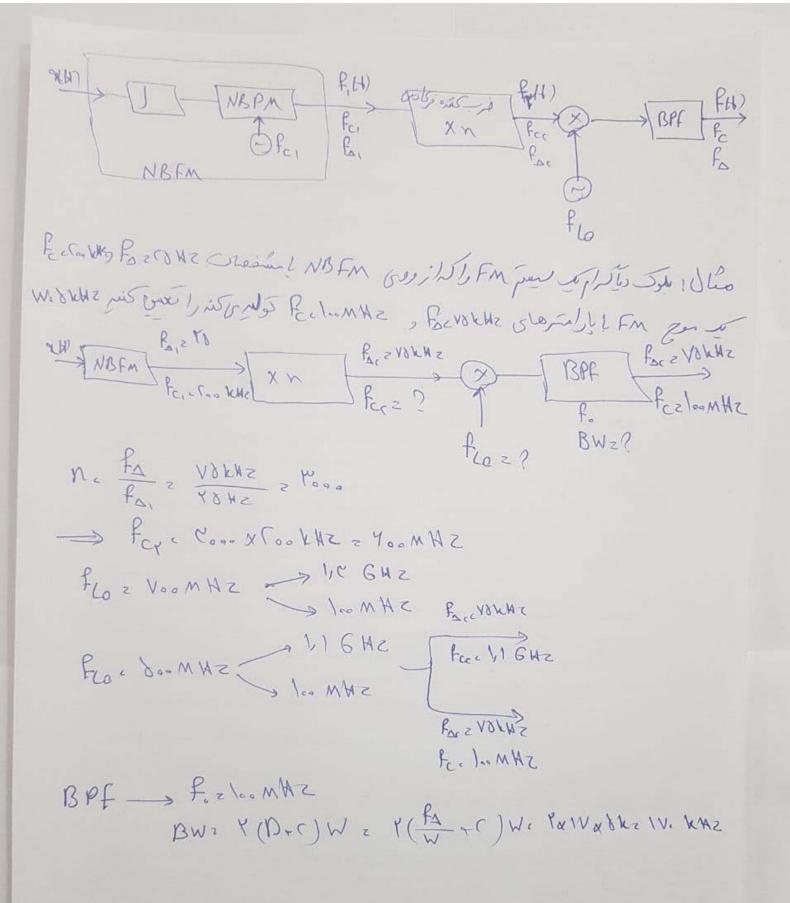
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( red o significance sur. Vi H) Vo HI Villia All) GO (H) HJ,94) orther tip of teels AT Voz E Iranlas (nac+ can) anc to 5 vi(t) = Inde doc The magnetical constant VoH) = ITALGO (WCt + TH) + Cai) رو کامال مای + 1 Tac/ 60 The 8 + 1 7 (1) + (Ac) + The de of ding are Dillering ravel de profes ! 3(AH) 心しずし ALLOCO(Ct-Pu) BPF -> On 1 | No nels do to - ( (4) 2 (A) S (HON) - 6 N. CKMP-6 \$(1)) nc 5% -

PM & FM MJ (MOD) Rely) len min mt (VCO) Justand Sivores ; Tostant W= TIC 13 tc CZC\_C, RHI => rcH). A Con Octh) de VICA) = 1 TCAN TIC. VI- CLAM = Mc (1 + C1 xH) => Och). rolet + roce fe Jacks dh Perrore. 240 ) 2 Rec [ ] 2 Rec [ ]

(9)

البرا عالم معتد المتال المتدارية Zelli. Ac Coloct, Bull) = Ac Coud-Actarn Sinual -Asnuct Fall for to day ACBINCT ) NBPM X(H) Re(4), Ac Cospet + Po Jacobs) 8,(8) = fc, + = x(4) = fc, x(1) استا ده از فراکسه فرکانسی God Jxn Gond GOLCT TO TONGET تنظم ما بالتقاد ازفزب كسه for me? - ne for months Accorder rate, Jachods - > Accopming + You to Juvill) > Republic > Fe, > nfc, -> fc (41)



an > o vit 9 ythe Ean xit) dégique le pot : 1000 كالوك مع دفعه مرسم بالرب بالا استفاده ور التفاده لي دو برايكسمه و مراير كلسه TXK (XK) (XK)  $n = k^m \implies k^m \geqslant n \implies m \geqslant \log_k n$ Clearly NBFM (sej) paryi Cojilosiille Widhall plulle willed IGNOL FeloMAZO POLVOKAZIFM STELL JE FEIZ GOKHED POZ YOMZ طراحي را براى استاده ازفعا دو برابر لسدن انعام دهم - [NOEM for the TXC (XO) DE FOCE NIGHTER X n: for coo -> m> 1.0, coo 2 11, d fo m = 10 -> n = 7 2 69 4 E = 4.84 x LQ = 1.1.4.0 MAS Fair Kaya Took 2 119, 100 MHZ

Fair V191000 100 MHZ BPF \_\_ , for landy BNS (0+0)W De for 2 1.5,16 lehz 95

Grag ale XcH) 2 AcCOOCH) Q(H)= Wet, P(1)+ P(0) Bette - Och) = PerfaxH) => 2x(1) = = Sm-1 (600cH) = SLA VH) = ( (for fank) = Acsn n xx(1) 29. Upol 06- ul XIV-1- 8/11). 60 to 2. - 2 ALD C +1 - 2 XAHD C 1 - Jt VIN A) 2 1 - ξ (OCH) - OC(1))

= 1 - ξ Och (d ct) - Och) c A

= 1 - ξ Och (d ct) - Och) c A

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= -1 + ξ (Och) - (d ct) -

CHILL ESPEN XCH) Acces uct role fould Ent white استفاده لارسسى كير drell z ra (Perforth) Sin (Wet-rolo) utild th.) de Printer , Knett) (A) 1

10(1)= 1 (V(1)-V(b-1,1) (-1,1) (V(b-1,1)) (V

2016) Consumo Sept Cospect PHI)

White Sin(uct + PH-to1)

Which a thest of Sin(uct + PH-to1)

Cos(wct-9. + PH-to1) = Sin(uct + P(16-to1))

Sin(PHI-PH+to) = PH-PH-to)

(PHI-PH+to) = PH-PH-to)

30% P(b)-P(b+) = k for x11)

Hate our of the field of the fi T(4) = 1 f(4) => f(H) = n7(H) JEDRES + ST VILIDA = MT(+) AT = AT PH) ocias soll). AT faxill)

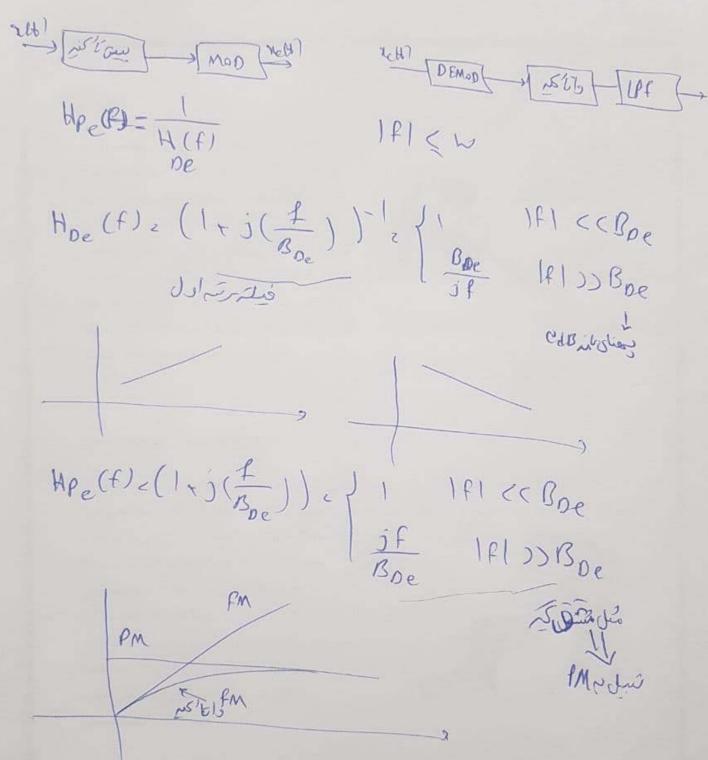
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deli egnan Total Visit Side Visit de la Visita : dato وسل الم تركالي That wend (Til) Silver VH) (Ac 6) Ud + A(6) ((HC, W, )+, P.) Phi = Auth () (uct , 7(6)) 18: Ai (P,H), A, VI+9, (SCSP), (H) (P,H), 45-) 85MP(H) (P,H) AVH) A. M. A. A. 11-S GOWH-PIN AC JAVHO. A. 11-S GOWH-PIN P. HI. 85. W. H. - P.) مولاسون ما هما فاز \_ دامنہ -> [ AvanAd + 5 Gs (121+47)] \
-> [ Q (4) c with Pi

90

ا ما المراف الم

فيلترهاى بيسًا كبيروولاً كبر



Ewin, c, M7 ومود دوستال توراً هزان وهرداست درگریته 2010/10/20 Pith) = 1/8 5 = (H) 7 マ 又(多, 平) 平(内) 213, 9.), 8'+865 P. 1+31+186)4. ynH12 P(H) 9 × (8,9 P)21 € 8>>1 AccAc = 8=1 d(8,9.). (148 Pics ± ray \$ = 1 \$ = 1 \$ = 1 \$ = 1 \$ = 1 \$ = 1 \$ = 1 dpo : d(f, .) - d(f, A) = 131 3 <N -> 220 000 80/2 ترليل غالب لي وقروي راتسف ١٠٠٧ ا