FIR Filter Design using Windows orden modified Bessel aiser Window ( | R | R | Lo = Zeroth 00 + 12 8/05 人"(Y) X

central the shape of Kaisen window allowing trade of lasteren sidelobe and mainlobe.

20 (mg 8 as follows. (1) Design Using Kaisor Winder (1) De We-We = Fransition width.
(2) ripple= 8 -> A= -20 lms 2.285 DW Arose d = M = N = 1(a) M=24=

212 ALSO タンシャ A < 2 | (6) 8= (0.1102(A-8.7) (6) 8= (0.5842(A.21)°.4

4

F.1701. 4 Both Cap 0.67 Wp=0.40 ilaw-p. £ε. H(w)= Hm(w) th(=) - hd(=) inea phas filter. (H/m) (PE

N=37 - # 4 / = 38 = 17/1/2 II. 1 8p= 0.001 } = 5 = 0.00/ To compet M, P (م) (م) AW= Ws-Wp= 0.27 A=-20 109 S=-60 عاد لكما م

tim grain carted over Windows

52.E 5.17

OPTIMEN FIR LITER DOSFIN

a(h)=2h(M-n) all o Thor a a(0)=460) a(r) (m) = (-(w) h(u)= h(N-n= H(w)= (F(w) e) H(w) = Hw (m) 6

How may local extrem des 6-10) have? (f(w) in a continue frale also and was Observations on (4W) 1 recina. J Mirit Gitten 1

power of low -2 les w[1-622] (m)= (m(2m+m)= (m2m cm - 2); sm 2 - 2 - 4 m Te hobythe Express (on (un) on som of powers of con 2 Sin Com = 4 60 m - 3 600 = Gw [260 -1] sm et (m) (2W)= 2 (m2 m -1 les (un) as

ع

(m !) (mm) (-2; m) 8 3  $(\mathbf{s}_{\kappa})^{\hat{c}}$ 6(2) (msm) (m) & the derivative and sex 12 / 38 X X (m) =

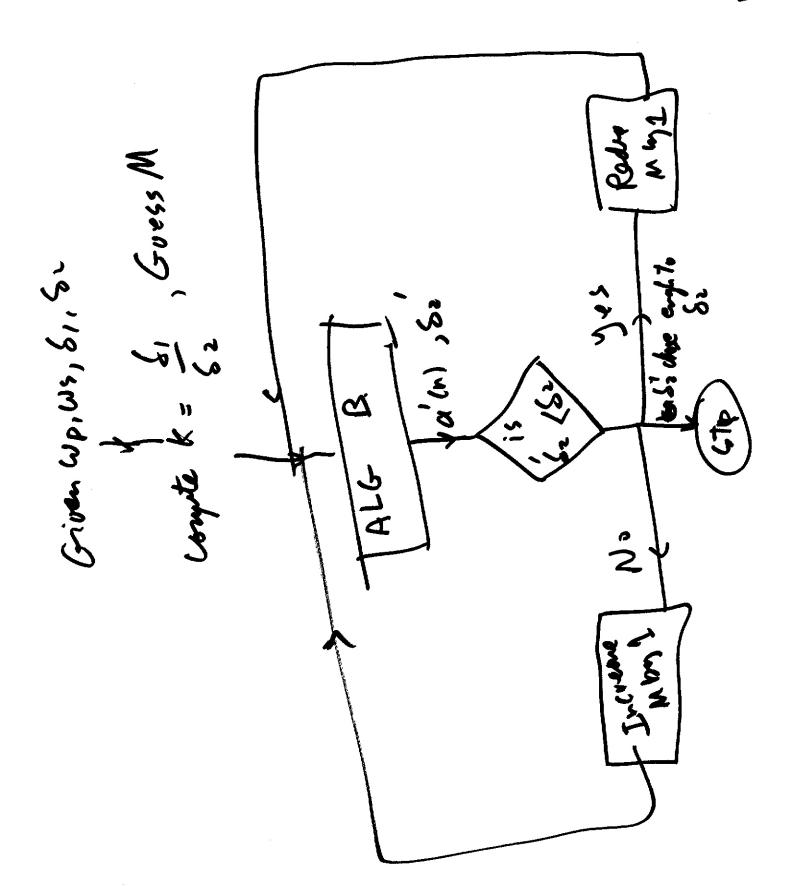
A X X X 5/ (2)3 ( in Cosu = total # uf local extrem ho (M) +2 = M+ 2 Polynam D'0:3 (m co) u (w)& Sin & =0

5

(LW) ie, als) out that M is minimized problem Statement Optime Filter Determin Problem A

7

Se is minimized. that solves problem B , Then I convic ain such that Defends als cool that Sz is sz Then that if I had a box to solve publem A AICB ! Problem B



a closed Interval o SWETT (m) (m) (m) (m) = (m) = (m) = 0(m) when W(w)= positive weighting functions to WEF Max D(w) = Desimal Freq. Reymose =1 when F. I, U I2 Henc. Find a(n) To minimize (m) & (m) & (m)) a robsect of I is passbad,