ひあっ = Tan (B-QW) d= group de lay. - A XH(W) = QK H(w)= Hm(w) (o) (p-dw) + j Hm(w) Sin (p-dw) X H(w) = P- 20 What are the conditions from Generality Linear Phase: j(B-dw) acheming Linear phase? (mp ( p- dm) Sin (18-dw) positive H(2)= H=(2)H Real ta (X H(v))

How can we derive & HW) h(x) 7

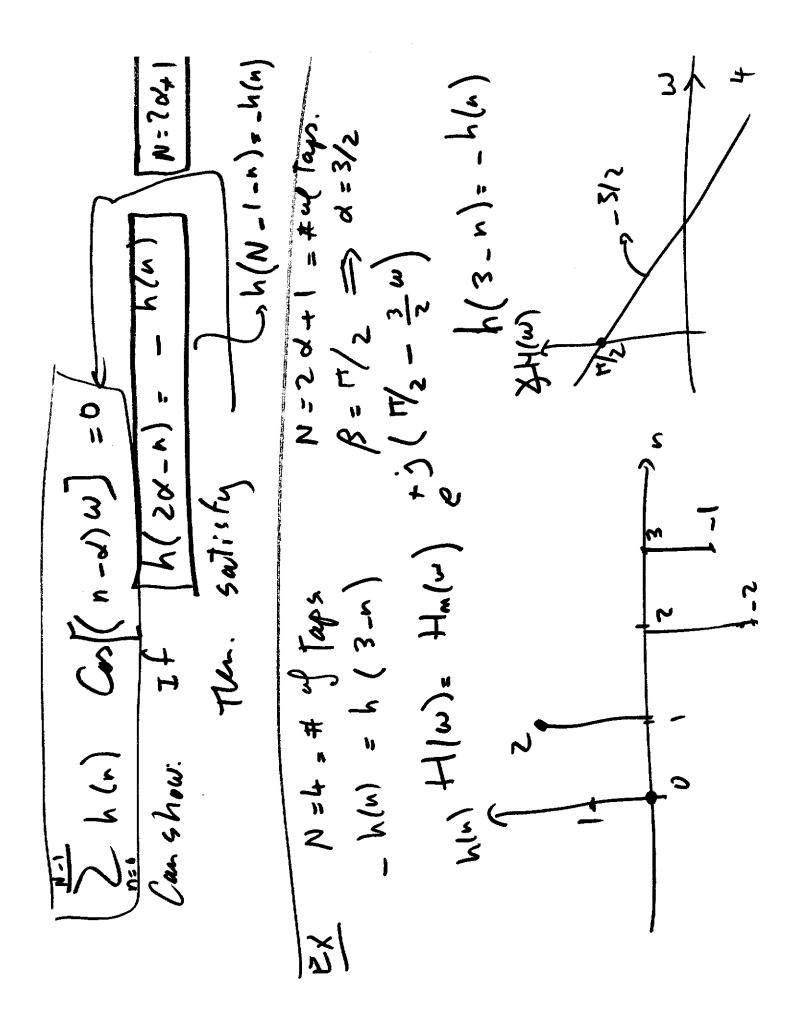
N

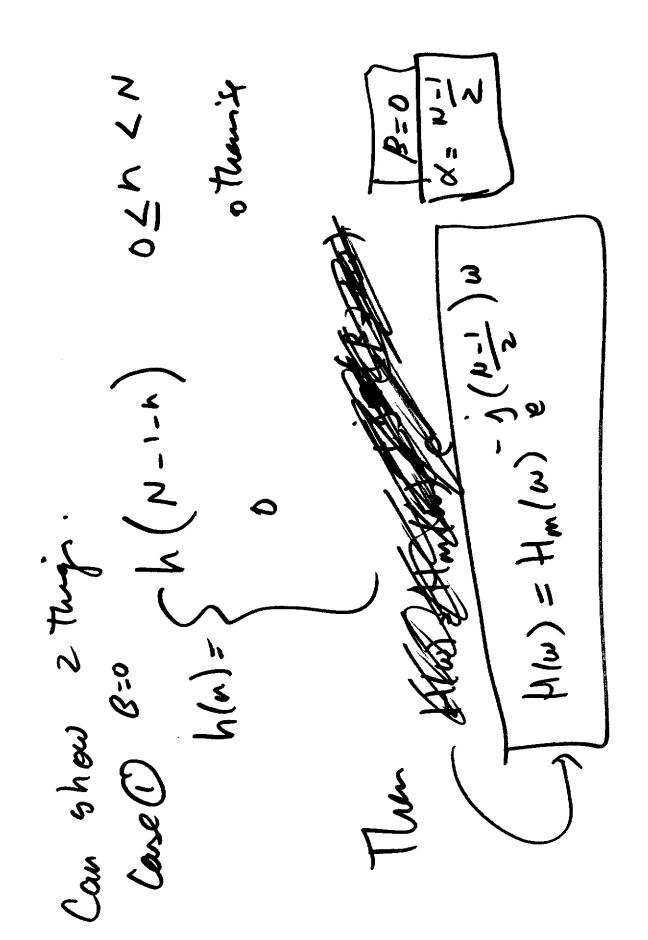
24°2 2 h(n) (m)(mn) - j Z h(n) Sin (mn) & hin con (wn) Z h(n) Sin (an) 2 h(n) e-3wn F(3)H (S) H

> 1, (h) Cos(wn) 2 h(n) Sin (wn) > heremany cond, titien (a) ( b. A w) (B- dw)

Sin (B-dw) 
$$\geq h(h) (bnun + \mathcal{R} (bn (\beta-dw))$$

$$\sum_{n=1}^{n-1} h(n) \leq h(n) \leq \ln \left( \frac{1}{2} h(n) + \frac{1}{2} \frac{1}{2} h(n) \right) \leq \ln \left( \frac{1}{2} h(n) + \frac{1}{2} \frac{1}{2} h(n) \right) \leq \ln \left( \frac{1}{2} h(n) + \frac{1}{2} \frac{1}{2} h(n) \right) \leq \ln \left( \frac{1}{2} h(n) + \frac{1}{2} h(n) + \frac{1}{2} h(n) \right) \leq \ln \left( \frac{1}{2} h(n) + \frac{1}{$$

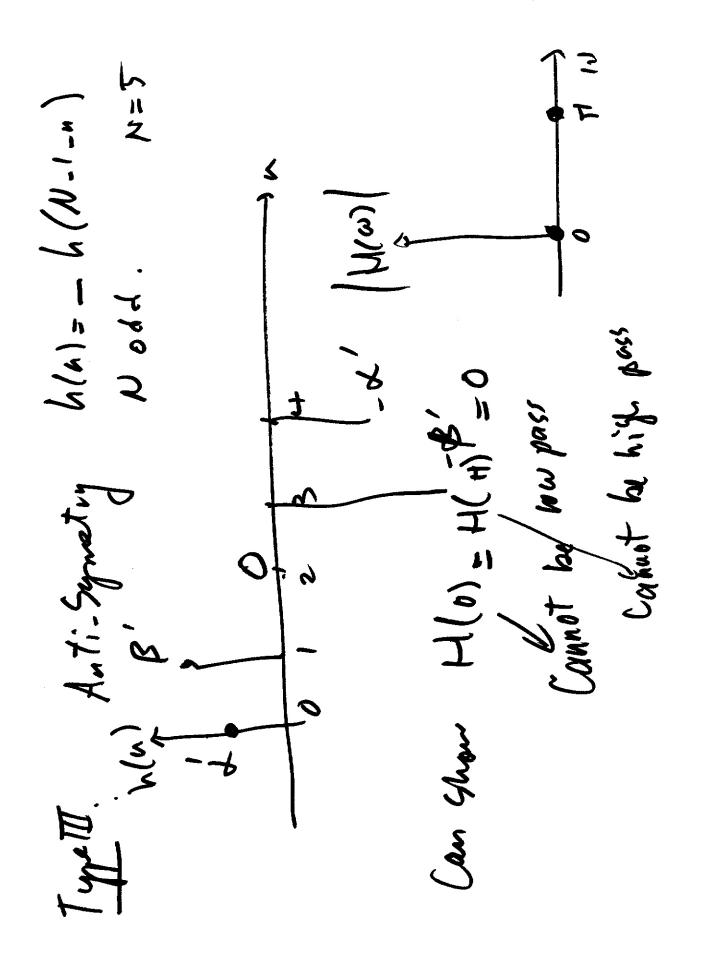




12 R=#/2 クケックラ H(w) = Hm(w) PR - 3w(m) ) (B-4W) 1 (n-1-N) n- >= (n) 4 H(w)= Hm(w) e /3 = M/2 lase 3

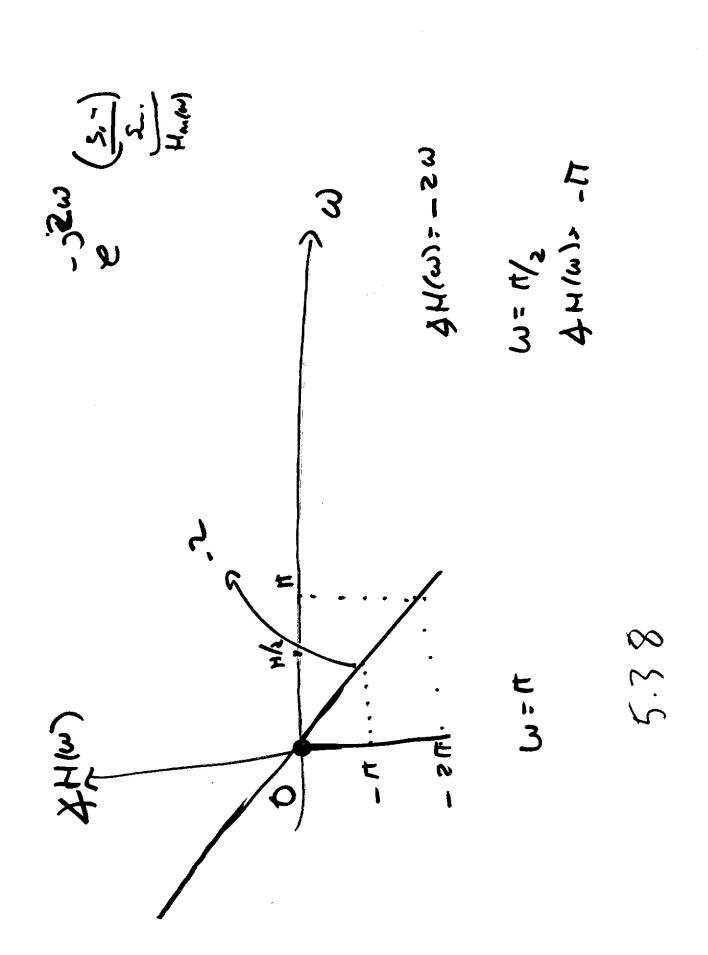
FIR -יוניסס 66 P. e ven L 1 28 ever t odd f 000

# of tap add < 4 h(n)=h( ( \ \ \ \ <u>ક</u> 5

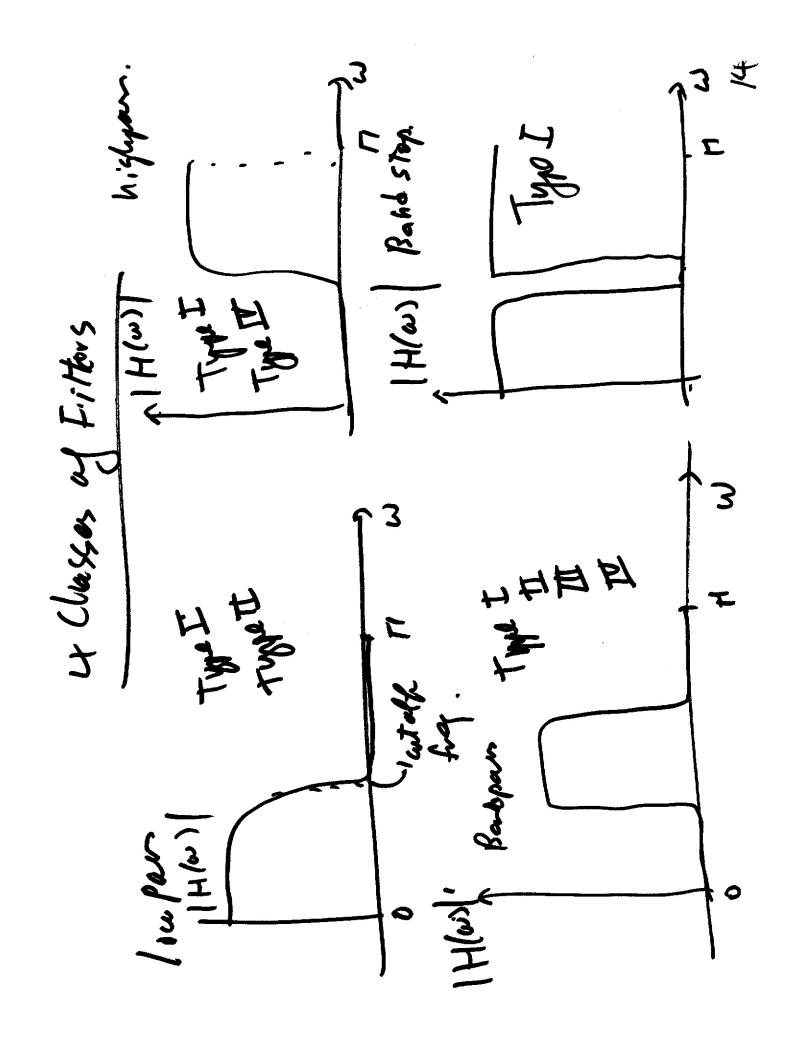


**ゴ**" B= 172 out symethy of

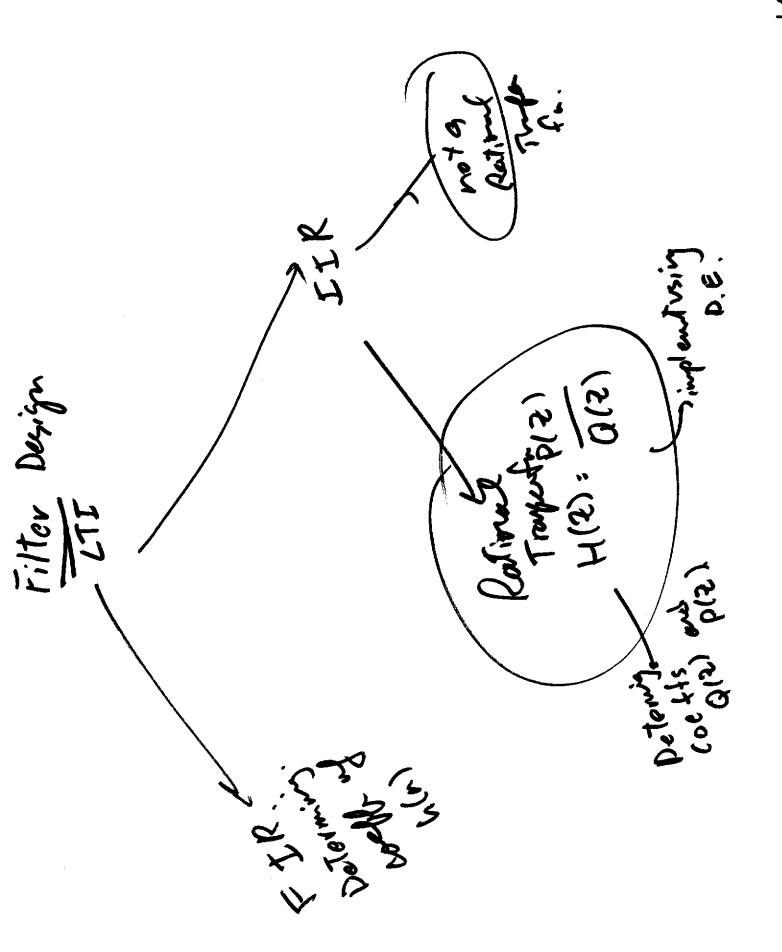
5.38, 5.39,5.40 165.3 198.3 h. 5×0



Constraint Halm) est	Pool		A(a) = 0 H(a) = 0	Porely Teagric.  H(0)=0  13
Hm (w)	20(n) 0 (e) wh	1 5(n) 2 (m-1) 2 (m-1)	7 2 2 cm 3; um	2 3(h) 2 3 m (n-1) 2 in w (n-1)
8	0	0	7/2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8	7/10	7/2	5/7	214
三季なる		& 2		4
Contraction of the state of the	h(n) = h(n-1-n) d	(w)	h(n) = 6dd - h(n-1.m)	3 2 2 2
7.0	T age	Tylett	林里	Tyle H

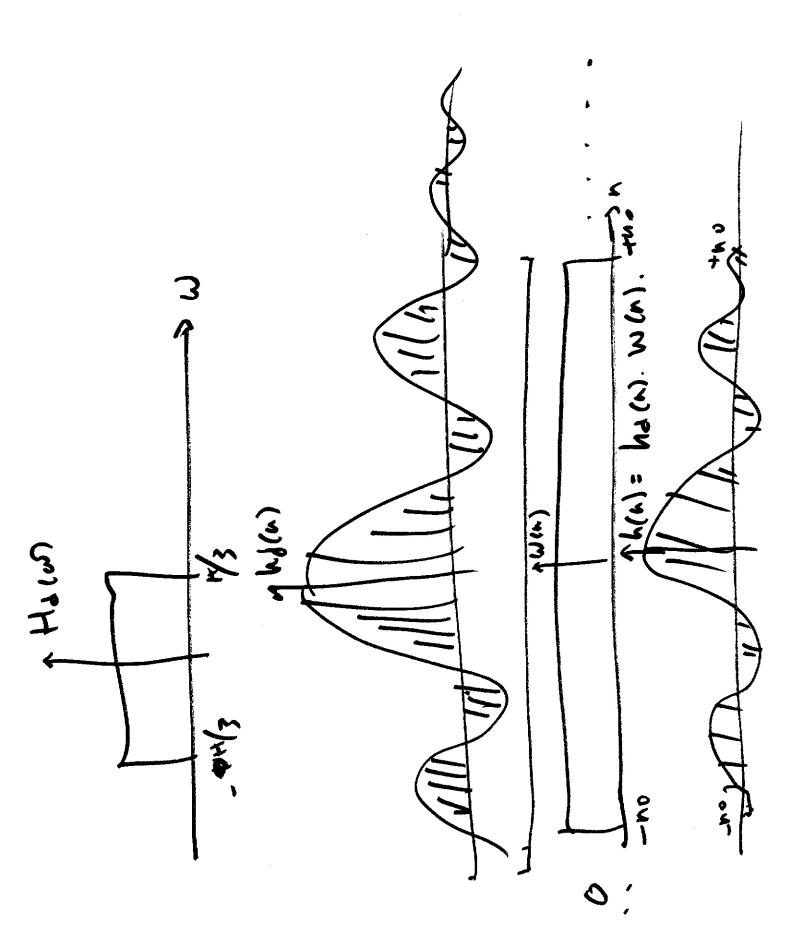


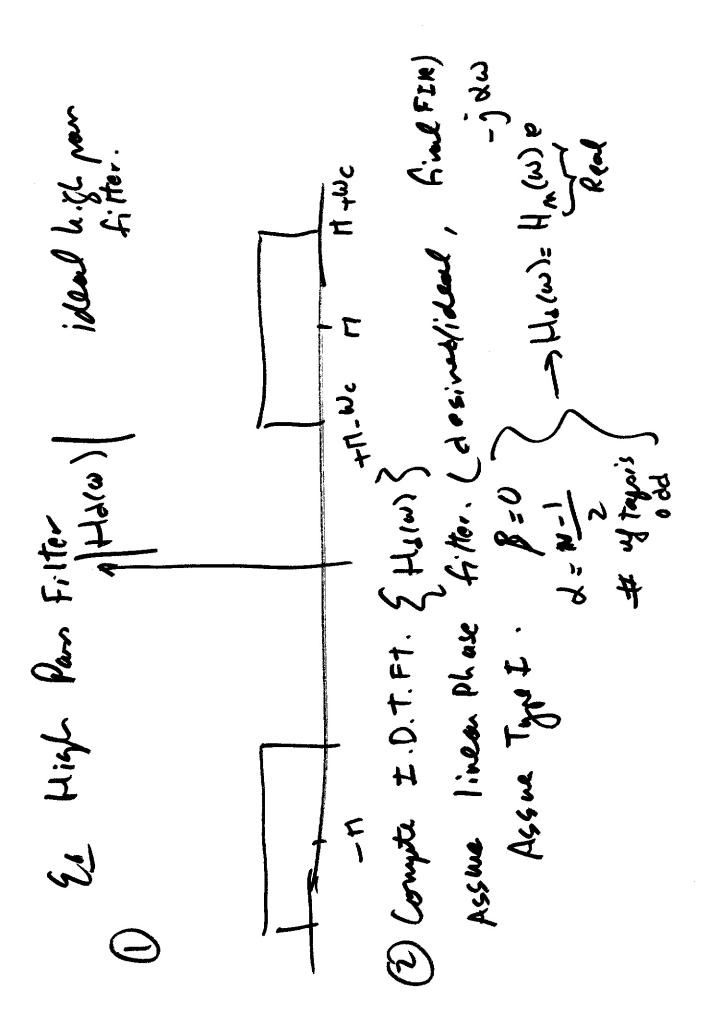
Red 5/2,		×	<b>×</b>	<b>×</b>
Sant pass	>			
		<b>&gt;</b>	<b>\</b>	
Low				<b>×</b>
	H	T		



> proyum 05P chip. Programble ASIC + X; (ix FP&A. -> mathel prog. Direction 1,2, Cascodi, Powell. Coordan on Oc. building C. 16.3 Determing 6 3 Act 2 Reali 1 du Sperit waln Design

LIE L	Windows.	(1) stand with dosined they. Response $H_d(\omega)$	(2) Compare IDTF7 { HA(w) }= Docined impole	(3) h(n) = hale) Wh)  fixite langth window
		(C)	3	





(wc (r-a)) -jalu jun du motified how by a finite longh winder to get PIR filter F-Wc 人び CM +Wc # . Wc < w < TI otherwise. esthemise. は (トーな) な (-1)n-K I. by FH&m3= 2 - jaw > > : (3) H >=\( \mathcal{M} \)

