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Jlow [n] = S[n] \* 1(n] 4hgh[n] = S[n] \* h[n] y 102[n] + ybigh[n] = (S[n]\* |[n]) + (S[n] \* h[n]) S[n]\*(1[n]+h[n]) = S[n] \*8[n] = S[n] h[n]=8[n]=5[n] Ylow[n] + yhigh[n] = S(n] S[n] \* [[n]+S[n] \* h[n] = S[n] S[n] \* (|[n]+b[n])= S[n] \* 8[n] [ ] 8 = [ ] = 8 [ ] h[n] = 8[n]-1[n] B: fc of h[n] is lower than that of

3 Discrete Fourier Transform

$$X_{N} = \sum_{n=0}^{N-1} X_{n}e^{-\lambda \pi_{1}(N/N)}$$

$$X_{N} = \sum_{n=0}^{N-1} X_{n}e^{-\lambda \pi_{1}(N/N)}$$

$$X_{N} = \sum_{n=0}^{N-1} (X_{n}) Y_{n} = \sum_{n=0}^{N-1} (X_{n}$$

	b)											
		χ	<u>,</u>	N-1	Xxe	27jl1	s/W)^					
		/\	n- N	( - o	17 p.C							
		X	N = 8	[h]	K	= Ko						
			χν= <u>i</u>	1	. C., al	1) .						
			Xn= i	آ د په	; (K/N	)						