

SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore - 641 107

AN AUTONOMOUS INSTITUTION

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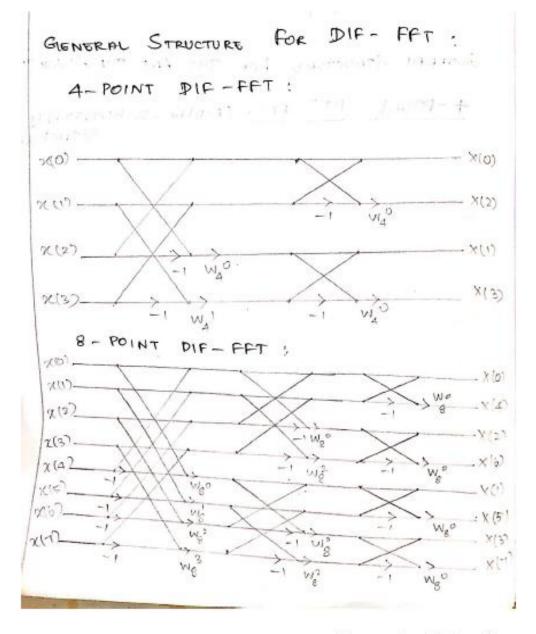
UNIT-I

Discrete Fourier Transform

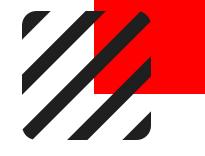
FFT Algorithms- Decimation in Frequency











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A-POINT DIF - PFT x(n)= 21,0,-1,03 vering DIF-FFT 12 (ath) Algorithm . tat (bx-1)) 509: N: 4 4-1-10=0 0+0=0 ×(0)=1-0+0=0. 0+0=0 X11=0-240×10=2 (1+(-1×-1))·1 x (2)=-1-10+10x-11x-1 (2+ (0x-1)x1=2 X13)=0 . Wo = 1 WATED ANSWER ! XLK1= 20, 2,0,23 2) x(n)= 20, 1, 2, 33 SOR . 0+2=2. 2(0)=0 -2+4=6. X(0): 6 1+3=4 x(1)=1 . +(4x-1)x1 0+(2×-1)×1 2(2)=2 -2+21 1 W2 = 10-j 2+4+31×-1 2(3)=3 X(3):-2-? W4=-j=-j+3j W4 = 1 - 21 ANSWER ! =-2-21 X(K)= 56, -2, -2+2; , -2-2;) ×1K1 = {16,0,-4,0,0,0,-4,0}

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INSTRACTION &





Thank You!



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