4% ith a sampling frequency (say) (12) $\Omega_{S} = \frac{2\pi}{T_{S}} = 2\pi (20.000)$ the discrete frequency wis related to the analog graquency $w = \Omega T_s \text{ or } w = \frac{12}{20.000}$ With an N-point DFT, the

Discrete-Time Fourier Transform (DTFT) is sampled at the N Siequencies

Wr = 121 . k, k = 0,1, ..., N-1 Therefor, X[k] corresponds to an analoge frequency of Ω_k = 20.000 w_k = 2π · 20.000 · k or \$k = 20000. N