

$$\rho_{ii'}(n, k) = \sum_{f=0}^{F/2} \operatorname{Re} \left\{ \frac{x_i(n, f) x_{i'}^*(n, f)}{|x_i(n, f)| |x_{i'}(n, f)|} e^{j2\pi f k / F} \right\}$$