

5.6.4 Jatkuvan Fourier-muunnoksen estimointi

“Secondly, as we shall now show, we can use the discrete Fourier transform to estimate the continuous Fourier transform of a continuous-time signal.”

“...our estimate of the Fourier transform $F(j\omega)$ of $f(t)$ over the interval

$$0 \leq t \leq (N - 1) T$$

will ... be the sequence of ...

$$\dots = T \sum_{k=0}^{N-1} f_k e^{-jkn\Delta\omega T}$$

which, from ... (5.78), gives

$$\dots = T \times \text{DFT}\{f_k\}$$

where $\text{DFT}\{f_k\}$ is the discrete Fourier transform of the sequence $\{f_k\}$.”

- arvojen $F(0)$, $F(j\Delta\omega)$, ..., $F(j(N-1)\Delta\omega)$ likiarvoiksi tulevat siis kaavalla (5.78) saatavat arvot $T F_0$, $T F_1$, ..., $T F_{N-1}$

- MIKSI tarvitaan tuo kertominen T :llä, näkyy kalvolla **JonoilleF**.