

Yhteenveto

"Often an engineer finds it useful to think of a signal in terms of its frequency components rather than in terms of its time domain representation. This alternative view is called a frequency domain representation. It is particularly useful when trying to understand the effect of a filter on a signal. Filters are used extensively in many areas of engineering. In particular, communication engineers use them in signal reception equipment for filtering out unwanted frequencies in the received signal, that is, removing the transmission signal to leave the audio signal."

(Croft, Davison, Hargreaves: *Engineering Mathematics*, Addison-Wesley 1997.)