

Application Note

Practical use of the "Hilbert transform"

by M.Thrane, J. Wismer, H.Konstantin-Hansen & S.Gade, Brüel & Kjær, Denmark

The Brüel&Kjær Signal Analyzer Type 3550 and 3140 families implement the Hilbert transform to open up new analysis possibilities in the time domain. By means of the Hilbert transform, the envelope of a time signal can be calculated, and displayed using a logarithmic amplitude scale enabling a large display range. Two examples which use the Hilbert transform are presented here:

- The determination of the damping or decay rate at resonances, from the impulse response function.
- The estimation of propagation time, from the cross correlation function.

The envelope

Many application measurements result in a time signal containing a rapidly oscillating component. The amplitude of the oscillation varies slowly with time, and the shape of the slow time variation is called the "envelope". The envelope often contains important information about the signal. By using the Hilbert transform, the rapid oscillations can be removed from the signal to produce a direct representation of the envelope alone.

For example, the impulse response of a single degree of freedom system is an exponentially damped sinusoid, $x_{(t)}$. This is shown as (a) in Fig.1. The envelope of the signal is determined by the decay rate. See Fig.1.

The Hilbert transform, \mathcal{H} , is used to calculate a new time signal $\hat{x}_{(t)}$ from the original time signal $x_{(t)}$. The time signal $\hat{x}_{(t)}$ is a cosine function whereas $x_{(t)}$ is a sine; both are shown in Fig.1.

The magnitude of the analytic signal $\hat{x}_{(t)}$ can be directly calculated from x and \hat{x} . The magnitude of $\hat{x}_{(t)}$ is the envelope of the original time signal and is shown above as (c). It has the following advantages over $x_{(t)}$:

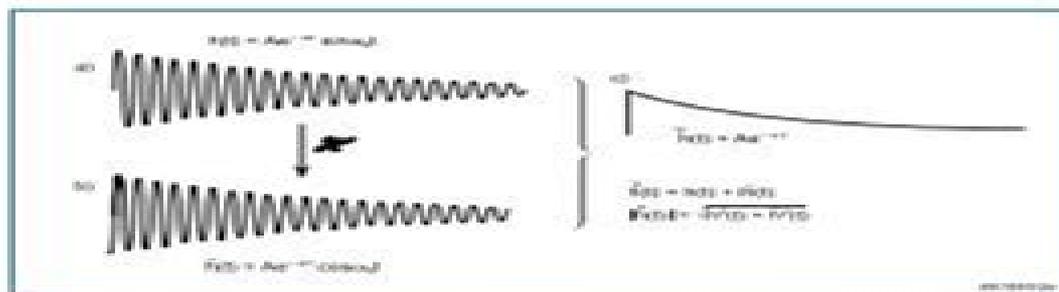


Fig.1 The Hilbert transform enables computation of the envelope of the impulse-response function

1. Removal of the oscillations allows detailed study of the envelope.
2. Since $\hat{x}_{(t)}$ is a positive function, it can be graphically represented using a logarithmic amplitude scale to enable a display range of 1:10,000 (80dB), or more. The original signal, $x_{(t)}$, includes both positive and negative values and is traditionally displayed using a linear amplitude scale. This limits the display range to about 1:100 (40dB).

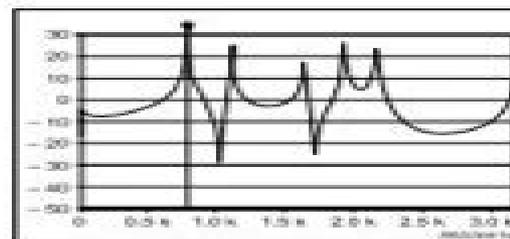


Fig.2

Decay rate estimation

Determining the frequency and corresponding damping at resonances is often the first step in solving a vibration problem for a structure. Fig.2 shows the log. magnitude of a mechanical mobility measurement. Within the excitation frequency range of 0Hz to 3.2kHz, five resonances are clearly seen. The resonance frequencies can be read directly with an accuracy determined by the resolution of the analysis, i.e. 4Hz. The decay rate at the resonances is often determined by the half-power (or 3dB) bandwidth, B_{3dB} , of

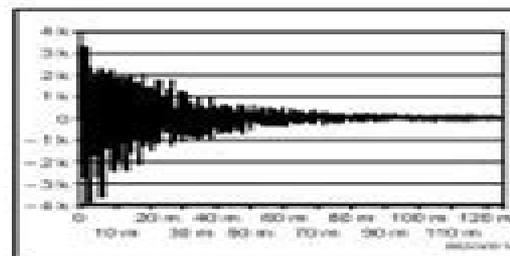


Fig.3

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Instrumentation Reference Book B. E. Noltingk,1988 Jones' Instrument Technology: Mechanical measurements Ernest Beachcroft Jones,B. E. Noltingk,1985 This set of five volumes covers all aspects of instrument technology Each volume has a part title

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