

- (a) If $h(t)$ is bandlimited show that $w(t) = Lv(t)$ is bandlimited regardless of whether $v(t)$ is bandlimited.
- (b) Suppose $v(t)$, $h(t)$, and $w(t) = Lv(t)$ are all bandlimited with spectrum contained in $-1/2 < s < 1/2$. According to the sampling theorem we can write

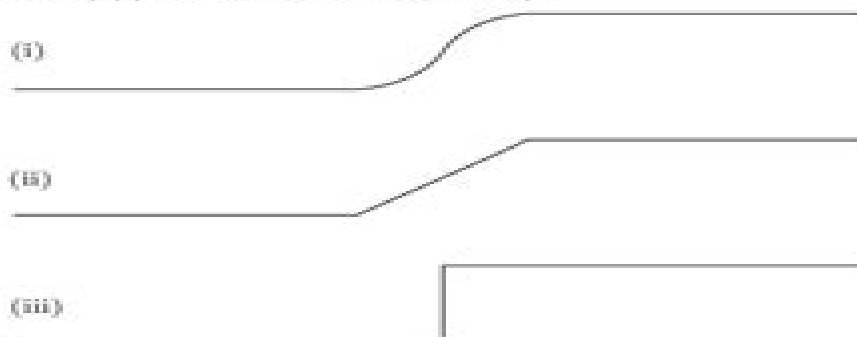
$$v(t) = \sum_{k=-\infty}^{\infty} v(k) \text{sinc}(t-k) \quad h(t) = \sum_{k=-\infty}^{\infty} h(k) \text{sinc}(t-k) \quad w(t) = \sum_{k=-\infty}^{\infty} w(k) \text{sinc}(t-k)$$

Express the sample values $w(k)$ in terms of the sample values of $v(t)$ and $h(t)$. (You will need to consider the convolution of shifted sines.)

5. (20 points) Let $a > 0$ and define the (continuous) running average of a signal $f(t)$ to be

$$Lf(t) = \frac{1}{2a} \int_{t-a}^{t+a} f(x) dx$$

- (a) Show that L is an LTI system and find its impulse response and transfer function.
- (b) What happens to the system as $a \rightarrow 0$? Justify your answer based on properties of the impulse response.
- (c) Find the impulse response and the transfer function for the cascaded system $M = L(Lf)$. Simplify your answer as much as possible, i.e., don't simply express the impulse response as a convolution.
- (d) Three signals are plotted (approximately) below. One is an input signal $f(t)$. One is $Lf(t)$ and one is $Mf(t)$. Which is which, and why?



6. (15 points) *Upsampling and Downsampling discrete signals:* We are given a discrete-time signal x_n , which was obtained by sampling a continuous-time $x(t)$ at frequency much higher than the Nyquist rate. Let $x_n = x(nT_s)$. Sometimes for an application, we need the samples of the signal $x(t)$ at a different sampling rate, say αT_s , where $\alpha > 0$. If $\alpha > 1$, it is downsampling else it is upsampling. One way to obtain the sample points at a different sampling frequency, is to reconstruct the signal $x(t)$ (which can be done as the original samples were obtained by sampling above the Nyquist rate) from the samples x_n and then resample it at the new frequency. However, due to non-idealities of the D/A and the A/D converters, this approach is not desirable. In this question, we want to obtain the new sample points directly by using x_n .

Fourier Manual Solution Transform

George A. Articolo



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