

Transformations de Fourier et de Laplace

Fonctions sommables ou de carré sommable sur $\mathbb{R}$. La transformée de Fourier de f est notée $\mathcal{F}(f)$ ou $\hat{f}$. La transformation de Fourier inverse de g est notée $\mathcal{F}^{-1}(g)$ ou $\mathcal{F}(g)$ ou $\hat{g}$

$$f \text{ et } g \in L^1(\mathbb{R}) \cup L^2(\mathbb{R}) \quad \boxed{\mathcal{F}(f(x))(\nu) = \int_{-\infty}^{+\infty} f(x) e^{-2i\pi\nu x} dx} \quad \boxed{\mathcal{F}^{-1}(g(x))(\nu) = \int_{-\infty}^{+\infty} g(x) e^{+2i\pi\nu x} dx}$$

Si $\hat{f} \in L^1(\mathbb{R})$ ou $L^2(\mathbb{R})$ on peut retrouver f (au moins au sens presque partout)

$$f \text{ et } \hat{f} \in L^1(\mathbb{R}) \cup L^2(\mathbb{R}) \quad \boxed{\mathcal{F}^{-1}\mathcal{F}(f)(x) \stackrel{\text{p.p.}}{=} f(x)} \quad \text{ou} \quad \forall x \quad \boxed{\mathcal{F}^{-1}\mathcal{F}(f)(x) = \frac{f(x^+) + f(x^-)}{2}}$$

Soit $h = f * g$ le produit de convolution de 2 fonctions définies sur $\mathbb{R}$ tout entier :

$$\boxed{h(x) = \int_{-\infty}^{+\infty} f(x-y)g(y)dy} \quad \text{on a } \mathcal{F}(f * g) = \mathcal{F}(f) \cdot \mathcal{F}(g) \text{ et } \mathcal{F}(f \cdot g) = \mathcal{F}(f) * \mathcal{F}(g)$$

Fonctions causales. En notant $\mathcal{U}(x)$ la fonction échelon, une fonction causale est de la forme $f(x)\mathcal{U}(x)$ et sa transformée de Laplace est notée $\mathcal{L}(f)(p)$ ou $F(p)$.

$$\boxed{\mathcal{L}(f(x)\mathcal{U}(x))(p) = \int_0^{+\infty} f(x) e^{-px} dx}$$

Si f et g sont causales alors le produit de convolution $h = f * g$ est aussi causal et on a

$$\boxed{h(x) = \mathcal{U}(x) \int_0^x f(x-y)g(y)dy} \quad \text{on a } \mathcal{L}(f * g) = \mathcal{L}(f) \cdot \mathcal{L}(g) \text{ et } \mathcal{L}(f \cdot g) = \mathcal{L}(f) * \mathcal{L}(g)$$

Fonction causale de $L^1(\mathbb{R}) \cup L^2(\mathbb{R})$. On passe de la transformées de Laplace à celle de Fourier en remplaçant p par $2i\pi\nu$. Ceci explique que les propriétés des 2 transformation soient très similaires.

$f(x) \mathcal{U}(x)$	$F(p)$	$f(x)$	$\hat{f}(\nu)$
$f(x-a) \mathcal{U}(x-a)$	$F(p)e^{-ap}$	$f(x-a)$	$\hat{f}(\nu)e^{-2i\pi\nu a}$
$f(x)e^{-ax} \mathcal{U}(x)$	$F(p+a)$	$f(x)e^{-2i\pi ax}$	$\hat{f}(\nu+a)$
$f'(x) \mathcal{U}(x)$	$pF(p) - f(0^+)$	$f'(x)$ si $f \in C^1(\mathbb{R})$	$2i\pi\nu \hat{f}(\nu)$
$f''(x) \mathcal{U}(x)$	$p^2 F(p) - pf(0^+) - f'(0^+)$	$f''(x)$	$(2i\pi\nu)^2 \hat{f}(\nu)$
		$f^{(n)}(x)$	$(2i\pi\nu)^n \hat{f}(\nu)$
$xf(x) \mathcal{U}(x)$	$-F'(p)$	$xf(x)$	$-\frac{1}{2i\pi} \hat{f}'(\nu)$
$x^n f(x) \mathcal{U}(x)$	$(-1)^n F^{(n)}(p)$	$x^n f(x)$	$(-\frac{1}{2i\pi})^n \hat{f}^{(n)}(\nu)$
$f(ax) \mathcal{U}(x)$	$\frac{1}{a} F(\frac{p}{a})$	$f(ax)$	$\frac{1}{ a } \hat{f}(\frac{\nu}{a})$
$\int_0^x f(y) \mathcal{U}(y) dy$	$\frac{F(p)}{p}$		

TAB. 1 - Propriétés des transformées de Laplace et de Fourier

Transformeacutes De Fourier Et De Laplace

Thirumalaisamy P.
Velavancorresponding



Transformeacutes De Fourier Et De Laplace:

Embracing the Beat of Term: An Psychological Symphony within **Transformeacutees De Fourier Et De Laplace**

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