



URL:

So formulas look for me

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$$\mathcal{F}\{g(x, y)\} = G(\xi, \eta) = \int_{-\infty}^{+\infty} \int_{-\infty}^{+\infty} g(x, y) e^{+j2\pi(\xi x + \eta y)} dx dy. \quad (1)$$

$$g(x, y) = \int_{-\infty}^{+\infty} \int_{-\infty}^{+\infty} G(\xi, \eta) e^{-j2\pi(\xi x + \eta y)} d\xi d\eta = \mathcal{F}^{-1}\{G(\xi, \eta)\} \quad (2)$$

$$\mathcal{F}\left\{\sum_{k=1}^N C_k \cdot g_k(x, y)\right\} = \sum_{k=1}^N C_k \cdot G_k(\xi, \eta) \quad (3)$$

$$\mathcal{F}\{g(ax, by)\} = \frac{1}{|ab|} \cdot G\left(\frac{\xi}{a}, \frac{\eta}{b}\right) \quad (4)$$

$$\mathcal{F}\{g(x - x_0, y - y_0)\} = G(\xi, \eta) \cdot e^{j2\pi(\xi x_0 + \eta y_0)} \quad (5)$$

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