

Fourier Transform Example

Gaussian

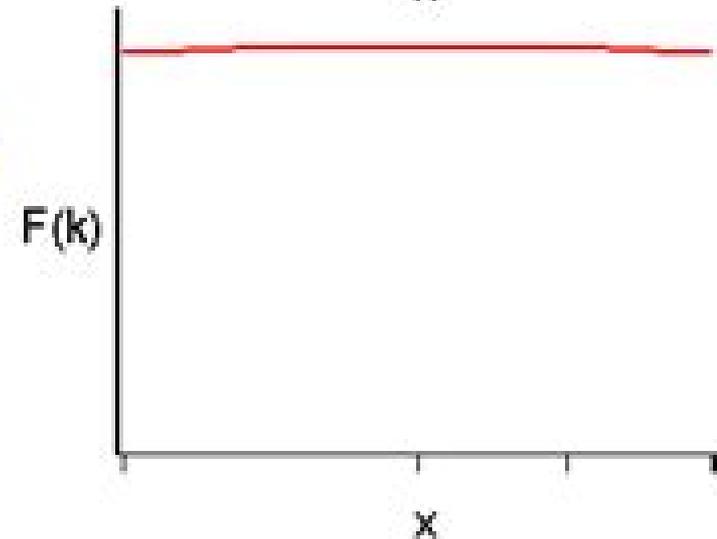
$$f(x) = \frac{\alpha}{2\pi} \exp\left[-\alpha \frac{x^2}{2}\right]$$

Transform is also a Gaussian!

$$\hat{f}(k) = \left(\frac{2\alpha}{\pi}\right)^{1/2} \exp\left[-\frac{1}{\alpha} \frac{k^2}{2}\right]$$

Width of transform is reciprocal of width of function

- *k-space is "reciprocal" space*
- *sharp $f(x)$ requires more values of $F(k)$ for good representation*
- *$\delta(x-x_0)$ transforms into a sine/cosine wave of frequency x_0 : $\hat{\delta}(k) = e^{2\pi i k x_0}$*



Fourier Transform Example Problems And Solutions

S Marginson



Fourier Transform Example Problems And Solutions:

Unveiling the Magic of Words: A Review of "**Fourier Transform Example Problems And Solutions**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Fourier Transform Example Problems And Solutions**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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