

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

R Bogdan



Fourier Transform Example Problems And Solutions:

Fourier Transform Example Problems And Solutions Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Fourier Transform Example Problems And Solutions**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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