

Find the fourier integral representation of the function  $f(x) = x \quad |x| < 2$  -2, 2  
 0 otherwise

$f(x) = x$                       odd function                       $A(w) = 0$   
 $f(-x) = -x = -f(x)$

$$\int uv = u \int v - u' \int \int v + u'' \int \int \int v - \dots$$

$$\underline{B(w)} = \frac{2}{\pi} \int_0^{\infty} \underline{f(x)} \sin(wx) dx = \frac{2}{\pi} \int_0^2 \underline{x \sin(wx)} dx$$

$$= \frac{2}{\pi} \left[ x \frac{-\cos(wx)}{w} + \frac{\sin(wx)}{w^2} \right]_0^2$$

$$= \frac{2}{\pi} \left[ \left( \frac{-2\cos(2w)}{w} + \frac{\sin(2w)}{w^2} \right) - (0 + 0) \right]$$

$$= \frac{2}{\pi} \left[ \frac{-2\cos(2w)}{w} + \frac{\sin(2w)}{w^2} \right] = \frac{2}{\pi} \left[ \frac{\sin(2w) - 2w\cos(2w)}{w^2} \right]$$

# Fourier Transform Of Engineering Mathematics Solved Problems

**Tobias Bleicker**



## **Fourier Transform Of Engineering Mathematics Solved Problems:**

## Unveiling the Magic of Words: A Report on "**Fourier Transform Of Engineering Mathematics Solved Problems**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Fourier Transform Of Engineering Mathematics Solved Problems**," a mesmerizing literary masterpiece penned by way of 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 effect on the souls of its readers.

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