

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

**Brendan G. Carr**



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

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

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Fourier Transform Of Engineering Mathematics Solved Problems**," a mesmerizing literary masterpiece penned with 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 in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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