

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

AN Whitehead



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