





 $z_i(t) = + z_i(t)$, symmetric along the y-axis. $z_i(t)$ is an even perodic function. By even-function symmetry,

ax = 4 1% (t) coskwot. dt (real coefficients)

bx = 0 (imaginary coefficients), for all t

 $x_2(-t) = -x_2(t)$ $x_2(t)$ is an odd periodic function. By odd function symmetry-

$$a_{K} = 0$$
 , $\forall K$ (Reall coeff = 0)
 $b_{K} = \frac{4}{T} \int_{0}^{T/2} x_{2}Ct \sin Kwot dt$.
Cimaginary coefficients)