Fourier series and Its Representation

Representation of a function over a certain interval by linear combination of mutual orthogonal function is called Fourier series representation.

$$f(x) = a_0 + \sum_{n=1}^{\infty} \left[a_n \cos\left(\frac{n\pi x}{L}\right) + b_n \sin\left(\frac{n\pi x}{L}\right) \right]$$

$$a_0 = \frac{1}{2L} \int_{-L}^{L} f(x)\,dx$$

$$a_n = \frac{1}{L} \int_{-L}^{L} f(x)\cos\left(\frac{n\pi x}{L}\right)dx$$

$$b_n = \frac{1}{L} \int_{-L}^{L} f(x)\sin\left(\frac{n\pi x}{L}\right)dx$$

This series is known as *Trigonometric Fourier series* .

Fourier Series And Integral Transforms

Victor M. Corman

Fourier Series And Integral Transforms:

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