# UNIT – III
# FOURIER SERIES

## Fourier series

Suppose that a given function $f(x)$ defined in $[-\pi, \pi]$ (or) $[0, 2\pi]$ (or) in any other interval can be expressed as

$$f(x) = \frac{a_0}{2} + \sum_{n=1}^{\infty} (a_n \cos nx + b_n \sin nx)$$

The above series is known as the Fourier series for $f(x)$ and the constants $a_0, a_n, b_n \ (n = 1, 2, 3 -----)$ are called Fourier coefficients of $f(x)$

## Periodic Function:-

A function $f(x)$ is said to be periodic with period $T > 0$ if for all $x$, $f(x + T) = f(x)$, and T is the least of such values

**Example:-** (1) $\sin x = \sin(x + 2\pi) = \sin(x + 4\pi) = -----$ the function $\sin x$ is periodic with period $2\pi$. There is no positive value T, $0 < T < 2\pi$ such that $\sin(x + T) = \sin x \, \forall \, x$

(2) *The period of $\tan x$ is $\pi$*

(3) The period of $\sin nnx$ is $\frac{2\pi}{n}$ *i.e $\sin nx = \sin n \left( \frac{2\pi}{n} + x \right)$*

## Euler's Formulae:-

The Fourier series for the function $f(x)$ in the interval $C \leq x \leq C + 2\pi$ is given by

$$f(x) = \frac{a_0}{2} + \sum_{n=1}^{\infty} (a_n \cos nx + b_n \sin nx)$$

Where $a_0 = \frac{1}{\pi} \int_C^{C+2\pi} f(x) dx$

$a_n = \frac{1}{\pi} \int_C^{C+2\pi} f(x) \cos nx. \, dx$ and

$b_n = \frac{1}{\pi} \int_C^{C+2\pi} f(x) \sin nx. \, dx$

These values of $a_0, a_n, b_n$ are known as Euler's formulae

**Corollary:-** If $f(x)$ is to be expanded as a Fourier series in the interval $0 \leq x \leq 2\pi$, put $C = 0$ then the formulae (1) reduces to

$$a_0 = \frac{1}{\pi} \int_0^{2\pi} f(x) \, dx \qquad a_n = \frac{1}{\pi} \int_0^{2\pi} f(x) \cos nx. dx$$

$$b_n = \frac{1}{\pi} \int_0^{2\pi} f(x) \sin nx. dx$$

**Corollary 2:-** If $f(x)$ is to expanded as a Fourier series in $[-\pi, \pi]$ put $c = -\pi$, the interval becomes $-\pi \leq x \leq \pi$ and the formulae (1) reduces to

# Fourier Transform Of Engineering Mathematics Solved Problems

**Debashis Dutta**

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illustrate the essential ideas of the methods employed References are given for further reading of more advanced or specialized topics **Practical Signal Processing And Its Applications: With Solved Homework Problems** Sharad R Laxpati,Vladimir Goncharoff,2017-12-15 This textbook gives a fresh approach to an introductory course in signal processing Its unique feature is to alternate chapters on continuous time analog and discrete time digital signal processing concepts in a parallel and synchronized manner This presentation style helps readers to realize and understand the close relationships between continuous and discrete time signal processing and lays a solid foundation for the study of practical applications such as the analysis and design of analog and digital filters The compendium provides motivation and necessary mathematical rigor It generalizes the Fourier transform to Laplace and Z transforms applies these transforms to linear system analysis covers the time and frequency domain analysis of differential and difference equations and presents practical applications of these techniques to convince readers of their usefulness MATLAB examples are provided throughout and over 100 pages of solved homework problems are included in the appendix **Selected Water Resources Abstracts** ,1990 *Communication Theory and Signal Processing for Transform Coding* Khamies El-Shennawy,2014-06-08 This book is tailored to fulfil the requirements in the area of the signal processing in communication systems The book contains numerous examples solved problems and exercises to explain the methodology of Fourier Series Fourier Analysis Fourier Transform and properties Fast Fourier Transform FFT Discrete Fourier Transform DFT and properties Discrete Cosine Transform DCT Discrete Wavelet Transform DWT and Contourlet Transform CT The book is characterized by three directions the communication theory and signal processing point of view the mathematical point of view and utility computer programs The contents of this book include chapters in communication system and signals Fourier Series and Power Spectra Fourier Transform and Energy Spectra Fourier Transform and Power Spectra Correlation Function and Spectral Density Signal Transmission and Systems Hilbert Transform Narrow Band Pass Signals and Systems and Numerical Computation of Transform Coding This book is intended for undergraduate students in institutes colleges universities and academies who want to specialize in the field of communication systems and signal processing The book will also be very useful to engineers of graduate and post graduate studies as well as researchers in research centers since it contains a great number of mathematical operations that are considered important in research results **System Level Design with Rosetta** Perry Alexander,2011-04-18 The steady and unabated increase in the capacity of silicon has brought the semiconductor industry to a watershed challenge Now a single chip can integrate a radio transceiver a network interface multimedia functions all the glue needed to hold it together as well as a design that allows the hardware and software to be reconfigured for future applications Such complex heterogeneous systems demand a different design methodology A consortium of industrial and government labs have created a new language and a new design methodology to support this effort Rosetta permits designers to specify requirements and constraints independent of their low level implementation and to integrate the designs

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