

## 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  $a_0, a_n, b_n$  ( $n=1, 2, 3, \dots$ ) 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)  $\sin x = \sin(x+2\pi) = \sin(x+4\pi) = \dots$  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  $\sin nx$  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  $a_0 = \frac{1}{\pi} \int_C^{C+2\pi} f(x) dx$

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

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

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

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

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

Corollary 2:- If  $f(x)$  is to be 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

**Karl-Heinrich Grote, Hamid Hefazi**



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

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Textbook Of Engineering Mathematics Vol. Ii D. Dutta, 2002 Designed For The Core Course On The Subject This Book Presents A Detailed Yet Simple Treatment Of The Fundamental Principles Involved In Engineering Mathematics All Basic Concepts Have Been Comprehensively Explained And Exhaustively Illustrated Through A Variety Of Solved Examples A Step By Step Approach Has Been Followed Throughout The Book Unsolved Problems Objective And Review Questions Alongwith Short Answer Questions Have Also Been Included For A Thorough Grasp Of The Subject The Book Would Serve As An Excellent Text For Undergraduate Engineering And Diploma Students Of All Disciplines Amie Candidates Would Also Find It Very Useful      Engineering Mathematics with Examples and Applications Xin-She Yang, 2016-12-29 Engineering Mathematics with Examples and Applications provides a compact and concise primer in the field starting with the foundations and then gradually developing to the advanced level of mathematics that is necessary for all engineering disciplines Therefore this book s aim is to help undergraduates rapidly develop the fundamental knowledge of engineering mathematics The book can also be used by graduates to review and refresh their mathematical skills Step by step worked examples will help the students gain more insights and build sufficient confidence in engineering mathematics and problem solving The main approach and style of this book is informal theorem free and practical By using an informal and theorem free approach all fundamental mathematics topics required for engineering are covered and readers can gain such basic knowledge of all important topics without worrying about rigorous often boring proofs Certain rigorous proof and derivatives are presented in an informal way by direct straightforward mathematical operations and calculations giving students the same level of fundamental knowledge without any tedious steps In addition this practical approach provides over 100 worked examples so that students can see how each step of mathematical problems can be derived without any gap or jump in steps Thus readers can build their understanding and mathematical confidence gradually and in a step by step manner Covers fundamental engineering topics that are presented at the right level without worry of rigorous proofs Includes step by step

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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

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