

## 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

**A. GANGADHARAN**



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

Fourier Transform M. D. PETALE, Purpose of this Book The purpose of this book is to supply lots of examples with details solution that helps the students to understand each example step wise easily and get rid of the college assignments phobia It is sincerely hoped that this book will help and better equipped the higher secondary students to prepare and face the examinations with better confidence I have endeavored to present the book in a lucid manner which will be easier to understand by all the engineering students About the Book According to many streams in engineering course there are different chapters in Engineering Mathematics of the same year according to the streams Hence students faced problem about to buy Engineering Mathematics special book that covered all chapters in a single book That s reason student needs to buy many books to cover all chapters according to the prescribed syllabus Hence need to spend more money for a single subject to cover complete syllabus So here good news for you your problem solved I made here special books according to chapter wise which helps to buy books according to chapters and no need to pay extra money for unneeded chapters that not mentioned in your syllabus PREFACE It gives me great pleasure to present to you this book on A Textbook on Fourier Transform of Engineering Mathematics presented specially for you Many books have been written on Engineering Mathematics by different authors and teachers but majority of the students find it difficult to fully understand the examples in these books Also the Teachers have faced many problems due to paucity of time and classroom workload Sometimes the college teacher is not able to help their own student in solving many difficult questions in the class even though they wish to do so Keeping in mind the need of the students the author was inspired to write a suitable text book providing solutions to various examples of Fourier Transform of Engineering Mathematics It is hoped that this book will meet more than an adequately the needs of the students they are meant for I have tried our level best to make this book error free

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depth differential equations partial differential equations Fourier analysis vector analysis complex analysis and linear algebra differential equations *Problems and Solutions in Higher Engg. Math Vol-III* Dr. T.C. Gupta, 2007 Partial Differential Equations Thomas Hillen, I. E. Leonard, Henry van Roessel, 2014-08-21 Uniquely provides fully solved problems for linear partial differential equations and boundary value problems Partial Differential Equations Theory and Completely Solved Problems utilizes real world physical models alongside essential theoretical concepts With extensive examples the book guides readers through the use of Partial Differential Equations PDEs for successfully solving and modeling phenomena in engineering biology and the applied sciences The book focuses exclusively on linear PDEs and how they can be solved using the separation of variables technique The authors begin by describing functions and their partial derivatives while also defining the concepts of elliptic parabolic and hyperbolic PDEs Following an introduction to basic theory subsequent chapters explore key topics including Classification of second order linear PDEs Derivation of heat wave and Laplace s equations Fourier series Separation of variables Sturm Liouville theory Fourier transforms Each chapter concludes with summaries that outline key concepts Readers are provided the opportunity to test their comprehension of the presented material through numerous problems ranked by their level of complexity and a related website features supplemental data and resources Extensively class tested to ensure an accessible presentation Partial Differential Equations is an excellent book for engineering mathematics and applied science courses on the topic at the upper undergraduate and graduate levels

*Fourier Transform: Theory & Solved Examples* M. D. Petale, 2018-04-08 Purpose of this Book The purpose of this book is to supply lots of examples with details solution that helps the students to understand each example step wise easily and get rid of the college assignments phobia It is sincerely hoped that this book will help and better equipped the engineering under graduate students to prepare and face the examinations with better confidence I have endeavored to present the book in a lucid manner which will be easier to understand by all the engineering students About the Book According to many streams in engineering degree course there are different chapters in Engineering Mathematics of the same semester according to the streams Hence students faced problem about to buy Engineering Mathematics special book that covered all chapters in a single book That s reason student need to buy many books to cover all chapters according to the prescribed syllabus Hence need to spends more money for a single subject to cover complete syllabus So here good news for you your problem solved I made here special books according to chapter wise that helps to buy books according to chapters and no need to pay extra money for unneeded chapters that not mentioned in your syllabus **ENGINEERING MATHEMATICS - III VOLUME 1**

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Advanced Engineering Mathematics Clarence Raymond Wylie,Louis C. Barrett,1995 This text aims to provide students in engineering with a sound presentation of post calculus mathematics It features numerous examples many involving engineering applications and contains all mathematical techniques for engineering degrees The book also contains over 5000 exercises which range from routine practice problems to more difficult applications In addition theoretical discussions illuminate principles indicate generalizations and establish limits within which a given technique may or may not be safely used

**Fourier Series, Transforms, and Boundary Value Problems** J. Ray Hanna,John H. Rowland,2008-06-11 This volume introduces Fourier and transform methods for solutions to boundary value problems associated with natural phenomena Unlike most treatments it emphasizes basic concepts and techniques rather than theory Many of the exercises include solutions with detailed outlines that make it easy to follow the appropriate sequence of steps 1990 edition

Scientific and Technical Aerospace Reports ,1995

Mathematical Analysis of Physical Problems Philip Russell Wallace,1984-01-01 This mathematical reference for theoretical physics employs common techniques and concepts to link classical and modern physics It provides the necessary mathematics to solve most of the problems Topics include the vibrating string linear vector

spaces the potential equation problems of diffusion and attenuation probability and stochastic processes and much more  
1972 edition      *Fundamentals of Partial Differential Equations* Atul Kumar Razdan,V. Ravichandran,2022-04-02 The book serves as a primary textbook of partial differential equations PDEs with due attention to their importance to various physical and engineering phenomena The book focuses on maintaining a balance between the mathematical expressions used and the significance they hold in the context of some physical problem The book has wider outreach as it covers topics relevant to many different applications of ordinary differential equations ODEs PDEs Fourier series integral transforms and applications It also discusses applications of analytical and geometric methods to solve some fundamental PDE models of physical phenomena such as transport of mass momentum and energy As far as possible historical notes are added for most important developments in science and engineering Both the presentation and treatment of topics are fashioned to meet the expectations of interested readers working in any branch of science and technology Senior undergraduates in mathematics and engineering are the targeted student readership and the topical focus with applications to real world examples will promote higher level mathematical understanding for undergraduates in sciences and engineering      **Applied Mechanics Reviews** ,1973      **Catalogue** United States Naval Academy,1986      **Annapolis, the United States Naval Academy Catalog** United States Naval Academy,1984      **Graduate Catalog** North Carolina State University,1955      **Integral Transforms and Applications** Nita H. Shah,Monika K. Naik,2022-10-03 This work presents the guiding principles of Integral Transforms needed for many applications when solving engineering and science problems As a modern approach to Laplace Transform Fourier series and Z Transforms it is a valuable reference for professionals and students alike

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