

CHAPTER 4

FOURIER SERIES AND INTEGRALS

4.1 FOURIER SERIES FOR PERIODIC FUNCTIONS

This section explains three Fourier series: sines, cosines, and exponentials e^{ikx} . Square waves (1 or 0 or -1) are great examples, with delta functions in the derivative. We look at a spike, a step function, and a ramp—and smoother functions too.

Start with $\sin x$. It has period 2π since $\sin(x + 2\pi) = \sin x$. It is an odd function since $\sin(-x) = -\sin x$, and it vanishes at $x = 0$ and $x = \pi$. Every function $\sin nx$ has those three properties, and Fourier looked at infinite combinations of the sines:

Fourier sine series $S(x) = b_1 \sin x + b_2 \sin 2x + b_3 \sin 3x + \cdots = \sum_{n=1}^{\infty} b_n \sin nx$ (1)

If the numbers b_1, b_2, \dots drop off quickly enough (we are foreshadowing the importance of the decay rate) then the sum $S(x)$ will inherit all three properties:

Periodic $S(x + 2\pi) = S(x)$ **Odd** $S(-x) = -S(x)$ $S(0) = S(\pi) = 0$

200 years ago, Fourier startled the mathematicians in France by suggesting that any function $S(x)$ with those properties could be expressed as an infinite series of sines. This idea started an enormous development of Fourier series. Our first step is to compute from $S(x)$ the number b_k that multiplies $\sin kx$.

Suppose $S(x) = \sum b_n \sin nx$. Multiply both sides by $\sin kx$. Integrate from 0 to π :

$$\int_0^\pi S(x) \sin kx \, dx = \int_0^\pi b_1 \sin x \sin kx \, dx + \cdots + \int_0^\pi b_k \sin kx \sin kx \, dx + \cdots \quad (2)$$

On the right side, all integrals are zero except the highlighted one with $n = k$. This property of “orthogonality” will dominate the whole chapter. The sines make 90° angles in function space, when their inner products are integrals from 0 to π :

Orthogonality $\int_0^\pi \sin nx \sin kx \, dx = 0 \quad \text{if } n \neq k.$ (3)

Chapter 4 Fourier Series And Integrals Mit

Joacim Rocklöv



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Mathematical Methods for Physics using Microsoft EXCEL Shinil Cho, 2025-06-10 In Mathematical Methods for Physics using Microsoft Excel readers will investigate topics from classical to quantum mechanics which are often omitted from the course work Some of these topics include rocket propulsion Rutherford scattering precession and nutation of a top under gravity parametric oscillation relativistic Doppler effect concepts of entropy kinematics of wave packets and boundary value problems and associated special functions as orthonormal bases Recent topics such as the Lagrange point of the James Webb Space Telescope a muon detector in relation to Cherenkov's radiation and information entropy and H function are also discussed and analyzed Additional interdisciplinary topics such as self avoiding random walks for polymer length and population dynamics are also described This book will allow readers to reproduce and replicate the data and experiments often found in physics textbooks with a stronger foundation of knowledge While investigating these subjects readers will follow a step by step introduction to computational algorithms for solving differential equations for which analytical solutions are often challenging to find For computational analysis features of Microsoft Excel including AutoFill Iterative Calculation and Visual Basic for Applications are useful to conduct hands on projects For the visualization of computed outcomes the Chart output feature can be readily used There are several first time attempts on various topics introduced in this book such as 3D like graphics using Euler's angle and the behavior of wave functions of harmonic oscillators and hydrogen atoms near the true eigenvalues

The Foundations of Acoustics Eugen Skudrzyk, 2012-12-06 Research and scientific progress are based upon intuition coordinated with a wide theoretical knowledge experimental skill and a realistic sense of the limitations of technology Only a deep insight into physical phenomena will supply the necessary skills to handle the problems that arise in acoustics The acoustician today needs to be well acquainted with mathematics dynamics hydrodynamics and physics he also needs a good knowledge of statistics signal processing electrical theory and of many other specialized subjects Acquiring this background is a laborious task and would require the study of many different books It is the goal of this volume to present this background in as thorough and readable a manner as possible so that the reader may turn to specialized publications or chapters of other books for further information without having to start at the preliminaries In trying to accomplish this goal mathematics serves only as a tool the better our understanding of a physical phenomenon the less mathematics is needed and the shorter and more concise are our computations A word about the choice of subjects for this volume will be helpful to the reader Even scientists of high standing are frequently not acquainted with the fundamentals needed in the field of acoustics Chapters I to IX are devoted to these fundamentals After studying Chapter I which discusses the units and their relationships the reader should have no difficulty converting from one system of units to any other

Applied Mechanics Reviews ,1987 Inside Interesting Integrals Paul J. Nahin, 2020-06-27 What's the point of calculating definite integrals since you can't possibly do them all What makes doing the specific integrals in this book of

value aren't the specific answers we'll obtain but rather the methods we'll use in obtaining those answers methods you can use for evaluating the integrals you will encounter in the future This book now in its second edition is written in a light hearted manner for students who have completed the first year of college or high school AP calculus and have just a bit of exposure to the concept of a differential equation Every result is fully derived If you are fascinated by definite integrals then this is a book for you New material in the second edition includes 25 new challenge problems and solutions 25 new worked examples simplified derivations and additional historical discussion *Resources for the Study of Real Analysis* Robert L. Brabenec, 2004 A collection of materials gathered by the author while teaching real analysis over a period of years

Modular Relations and Parity in Number Theory Kalyan Chakraborty, Shigeru Kanemitsu, Takako Kuzumaki, 2025-08-19 This book describes research problems by unifying and generalizing some remote looking objects through the functional equation and the parity relation of relevant zeta functions known as the modular relation or RHB correspondence It provides examples of zeta functions introduced as absolutely convergent Dirichlet series not necessarily with the Euler product The book generalizes this to broader cases explaining the special functions involved The extension of the Chowla Selberg integral formula and the Hardy transform are key substituting the Bochner modular relation in the zeta function of Maass forms The book also develops principles to deduce summation formulas as modular relations and addresses Chowla's problem and determinant expressions for class numbers Many books define zeta functions using Euler products excluding Epstein and Hurwitz type zeta functions Euler products are constructed from objects with a unique factorization domain property This book focuses on using the functional equation called the modular relation specifically the ramified functional equation of the Hecke type Here the gamma factor is the product of two gamma functions leading to the Fourier Whittaker expansion and reducing to the Fourier Bessel expansion or the Chowla Selberg integral formula for Epstein zeta functions Flow Sensing in Air and Water Horst Bleckmann, Joachim Mogdans, Sheryl L. Coombs, 2014-01-22 In this book leading scientists in the fields of sensory biology neuroscience physics and engineering explore the basic operational principles and behavioral uses of flow sensing in animals and how they might be applied to engineering applications such as autonomous control of underwater or aerial vehicles Although humans possess no flow sensing abilities countless aquatic e.g. fish cephalopods and seals terrestrial e.g. crickets and spiders and aerial e.g. bats animals have flow sensing abilities that underlie remarkable behavioral feats These include the ability to follow silent hydrodynamic trails long after the trailblazer has left the scene to form hydrodynamic images of their environment in total darkness and to swim or fly efficiently and effortlessly in the face of destabilizing currents and winds *Tables of the Function $\sin \theta/\theta$ and of Its First Eleven Derivatives* Harvard University. Computation Laboratory, 1949 **Tables of the Function $[\sin \theta/\theta]$ and of Its First Eleven Derivatives** Harvard University. Computation Laboratory, 1949 **Mathematical Reviews**, 1997 Proceedings, 1949 **Computer Holography** Tomoyoshi Shimobaba, Tomoyoshi Ito, 2019-01-30 This book describes

algorithms and hardware implementations of computer holography especially in terms of fast calculation It summarizes the basics of holography and computer holography and describes how conventional diffraction calculations play a central role Numerical implementations by actual codes will also be discussed This book will explain new fast diffraction calculations such as scaled scalar diffraction Computer Holography will also explain acceleration algorithms for computer generated hologram CGH generation and digital holography with 3D objects composed of point clouds using look up table LUT based algorithms and a wave front recording plane 3D objects composed of polygons using tilted plane diffraction expressed by multi view images and RGB D images will be explained in this book Digital holography including inline off axis Gabor digital holography and phase shift digital holography will also be explored This book introduces applications of computer holography including phase retrieval algorithm holographic memory holographic projection and deep learning in computer holography while explaining hardware implementations for computer holography Recently several parallel processors have been released for example multi core CPU GPU Xeon Phi and FPGA Readers will learn how to apply algorithms to these processors

Features Provides an introduction of the basics of holography and computer holography Summarizes the latest advancements in computer generated holograms Showcases the latest researchers of digital holography Discusses fast CGH algorithms and diffraction calculations and their actual codes Includes hardware implementation for computer holography and its actual codes and quasi codes

The Annals ... Harvard University. Computation Laboratory, 1945

Non-Gaussian Statistical Communication Theory David Middleton, 2012-05-29 The book is based on the observation that communication is the central operation of discovery in all the sciences In its active mode we use it to interrogate the physical world sending appropriate signals and receiving nature's reply In the passive mode we receive nature's signals directly Since we never know a priori what particular return signal will be forthcoming we must necessarily adopt a probabilistic model of communication This has developed over the approximately seventy years since its beginning into a Statistical Communication Theory or SCT Here it is the set or ensemble of possible results which is meaningful From this ensemble we attempt to construct in the appropriate model format based on our understanding of the observed physical data and on the associated statistical mechanism analytically represented by suitable probability measures Since its inception in the late 30's of the last century and in particular subsequent to World War II SCT has grown into a major field of study As we have noted above SCT is applicable to all branches of science The latter itself is inherently and ultimately probabilistic at all levels Moreover in the natural world there is always a random background noise as well as an inherent a priori uncertainty in the presentation of deterministic observations i.e. those which are specifically obtained a posteriori The purpose of the book is to introduce Non Gaussian statistical communication theory and demonstrate how the theory improves probabilistic model The book was originally planned to include 24 chapters as seen in the table of preface Dr Middleton completed first 10 chapters prior to his passing in 2008 Bibliography which represents remaining chapters are put together by the author's close

colleagues Drs Vincent Poor Leon Cohen and John Anderson email pressbooks@ieee.org to request Ch 10 Publicationes mathematicae Kossuth Lajos Tudományegyetem. Matematikai Intézet, 1975 *Technology Review* ,1964 Bulletin (new Series) of the American Mathematical Society ,1919 Scientific American ,1964 Monthly magazine devoted to topics of general scientific interest **Choice** ,2002 Discovery ,1965

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