

# Fourier Series

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## 10.1 INTRODUCTION

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In connection with the solution of the heat equation in Section 6.2.1, we still have to show how to choose constants  $b_n$  for  $n = 1, 2, 3, \dots$  in such a way that a given function  $f$  can be expressed as a trigonometric series of the form

$$f(x) = \sum_{n=1}^{\infty} b_n \sin \frac{n\pi x}{l}. \quad (1)$$

This, and the more general problem of expressing a given function  $f$  as a series of the form

$$f(x) = \frac{a_0}{2} + \sum_{n=1}^{\infty} \left( a_n \cos \frac{n\pi x}{l} + b_n \sin \frac{n\pi x}{l} \right), \quad (2)$$

will be the subject matter of this chapter.

Series like the ones which appear in the right-hand sides of (1) and (2) are called *trigonometric series* or *Fourier series* in honor of the French scientist J. B. Fourier. Fourier discovered an ingenious method for computing the coefficients  $a_n$  and  $b_n$  of (2) and made systematic use of such series in connection with his work on heat conduction in 1807 and 1811. However, Fourier's work lacked mathematical rigor, thus leading him to the false conclusion that any arbitrary function can be expressed as a series of the form (2). This is not true, as we will see in Section 10.4. Consequently, when Fourier published his results, they were considered to be nonsense by many of his contemporaries. Since then, the theory of Fourier series has been developed on a rigorous basis and has become an indispensable tool in many areas of scientific work.

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## 10.2 PERIODICITY AND ORTHOGONALITY OF SINES AND COSINES

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In this section we study the periodic character and orthogonality properties of the functions

$$\cos \frac{n\pi x}{l} \quad \text{and} \quad \sin \frac{n\pi x}{l} \quad \text{for} \quad n = 1, 2, 3, \dots; l > 0, \quad (1)$$

which are the building blocks of Fourier series.

# M15 Mathl Hp3 Ms Series And Differential Equations

**Martha L. Abell, James P. Braselton**



### **M15 Mathl Hp3 Ms Series And Differential Equations:**

**Differential Equations: From Calculus to Dynamical Systems** Virginia W. Noonburg, 2019-01-24 A thoroughly modern textbook for the sophomore level differential equations course The examples and exercises emphasize modeling not only in engineering and physics but also in applied mathematics and biology There is an early introduction to numerical methods and throughout a strong emphasis on the qualitative viewpoint of dynamical systems Bifurcations and analysis of parameter variation is a persistent theme Presuming previous exposure to only two semesters of calculus necessary linear algebra is developed as needed The exposition is very clear and inviting The book would serve well for use in a flipped classroom pedagogical approach or for self study for an advanced undergraduate or beginning graduate student This second edition of Noonburg's best selling textbook includes two new chapters on partial differential equations making the book usable for a two semester sequence in differential equations It includes exercises examples and extensive student projects taken from the current mathematical and scientific literature

**A Course in Differential Equations with Boundary Value Problems** Stephen A. Wirkus, Randall J. Swift, Ryan Szykowski, 2017-01-24 A Course in Differential Equations with Boundary Value Problems 2nd Edition adds additional content to the author's successful A Course on Ordinary Differential Equations 2nd Edition This text addresses the need when the course is expanded The focus of the text is on applications and methods of solution both analytical and numerical with emphasis on methods used in the typical engineering physics or mathematics student's field of study The text provides sufficient problems so that even the pure math major will be sufficiently challenged The authors offer a very flexible text to meet a variety of approaches including a traditional course on the topic The text can be used in courses when partial differential equations replaces Laplace transforms There is sufficient linear algebra in the text so that it can be used for a course that combines differential equations and linear algebra Most significantly computer labs are given in MATLAB Mathematica and Maple™ The book may be used for a course to introduce and equip the student with a knowledge of the given software Sample course outlines are included Features MATLAB Mathematica and Maple™ are incorporated at the end of each chapter All three software packages have parallel code and exercises There are numerous problems of varying difficulty for both the applied and pure math major as well as problems for engineering physical science and other students An appendix that gives the reader a crash course in the three software packages Chapter reviews at the end of each chapter to help the students review Projects at the end of each chapter that go into detail about certain topics and introduce new topics that the students are now ready to see Answers to most of the odd problems in the back of the book

**Introduction to Differential Equations** William E. Boyce, Richard C. DiPrima, 2012

**A Course in Ordinary Differential Equations** Stephen A. Wirkus, Randall J. Swift, 2014-12-15 A Course in Ordinary Differential Equations Second Edition teaches students how to use analytical and numerical solution methods in typical engineering physics and mathematics applications Lauded for its extensive computer code and student friendly approach the

first edition of this popular textbook was the first on ordinary differential equations Calculus and Ordinary Differential Equations David Pearson, 1995-12-01 Professor Pearson's book starts with an introduction to the area and an explanation of the most commonly used functions. It then moves on through differentiation, special functions, derivatives, integrals, and onto full differential equations. As with other books in the series, the emphasis is on using worked examples and tutorial-based problem solving to gain the confidence of students.

*Introductory Differential Equations* Martha L. Abell, James P. Braselton, 2023-12-21 2025 Textbook and Academic Authors Association TAA McGuffey Longevity Award Winner *Introductory Differential Equations* Sixth Edition provides the foundations to assist students in learning not only how to read and understand differential equations but also how to read technical material in more advanced texts as they progress through their studies. The book's accessible explanations and many robust sample problems are appropriate for a first semester course in introductory ordinary differential equations including Laplace transforms for a second course in Fourier series and boundary value problems and for students with no background on the subject. Gives students a complete foundation on the subject providing a strong basis for learning how to read technical material in more advanced texts. Includes new comprehensive exercise sets throughout ranging from straightforward to challenging. Offers applications and extended projects relevant to the real world through the use of examples in a broad range of contexts. Provides online support including a full solutions manual for qualified instructors and a partial solutions manual for students.

**Differential Equations** John C. Polking, Albert Boggess, David Arnold, 2006 Combining traditional material with a modern systems approach, this handbook provides a thorough introduction to differential equations, tempering its classic pure math approach with more practical applied aspects. Features up-to-date coverage of key topics such as first order equations, matrix algebra, systems, and phase plane portraits. Illustrates complex concepts through extensive detailed figures. Focuses on interpreting and solving problems through optional technology projects. For anyone interested in learning more about differential equations.

**Elementary Differential Equations with Applications** Charles Henry Edwards, David E. Penney, 1985 Textbook for undergraduate students treats the standard introductory topics. Acidic paper. Annotation copyrighted by Book News Inc. Portland, OR.

Ordinary Differential Equations Fred Brauer, John A. Nohel, 1967 *Differential Equations* W. Woolsey Johnson, Mansfield Merriman, Robert S. Woodward, 2014-02-10

AUTHOR'S PREFACE It is customary to divide the Infinitesimal Calculus or Calculus of Continuous Functions into three parts under the heads Differential Calculus, Integral Calculus, and Differential Equations. The first corresponds in the language of Newton to the direct method of tangents; the other two to the inverse method of tangents. While the questions which come under this last head, he further divided into those involving the two fluxions and one fluent, and those involving the fluxions and both fluents. On account of the inverse character which thus attaches to the present subject, the differential equation must necessarily at first be viewed in connection with a primitive from which it might have been obtained by the direct process, and the solution consists in the

discovery by tentative and more or less artificial methods of such a primitive when it exists that is to say when it is expressible in the elementary functions which constitute the original field with which the Differential Calculus has to do It is the nature of an inverse process to enlarge the field of its operations and the present is no exception but the adequate handling of the new functions with which the field is thus enlarged requires the introduction of the complex variable and is beyond the scope of a work of this size But the theory of the nature and meaning of a differential equation between real variables possesses a great deal of interest To this part of the subject I have endeavored to give a full treatment by means of extensive use of graphic representations in rectangular coordinates If we ask what it is that satisfies an ordinary differential equation of the first order the answer must be certain sets of simultaneous values of  $x$ ,  $y$  and  $p$  The geometrical representation of such a set is a point in a plane associated with a direction so to speak an infinitesimal stroke and the solution consists of the grouping together of these strokes into curves of which they form elements The treatment of singular solutions following Cayley and a comparison with the methods previously in use illustrates the great utility of this point of view Again in partial differential equations the set of simultaneous values of  $x$ ,  $y$ ,  $z$ ,  $p$  and  $q$  which satisfies an equation of the first order is represented by a point in space associated with the direction of a plane so to speak by a flake and the mode in which these coalesce so as to form linear surface elements and continuous surfaces throws light upon the nature of general and complete integrals and of the characteristics The expeditious symbolic methods of integration applicable to some forms of linear equations and the subject of development of integrals in convergent series have been treated as fully as space would allow Examples selected to illustrate the principles developed in each section will be found at its close and a full index of subjects at the end of the volume

**Elementary Differential Equations...** R.L.E.. Schwarzenberger, 1971

**Fundamentals of Differential Equations, Global Edition** R. Kent Nagle, Edward B. Saff, Arthur David Snider, 2018-07-02 Fundamentals of Differential Equations presents the basic theory of differential equations and offers a variety of modern applications in science and engineering This flexible text allows instructors to adapt to various course emphases theory methodology applications and numerical methods and to use commercially available computer software

**Differential Equations** C. Henry Edwards, David E. Penney, David Calvis, 2018-01-15 For one semester sophomore or junior level courses in Differential Equations Fosters the conceptual development and geometric visualization students need now available with MyLab Math Differential Equations Computing and Modeling blends traditional algebra problem solving skills with the conceptual development and geometric visualization of a modern differential equations course that is essential to science and engineering students It balances traditional manual methods with the new computer based methods that illuminate qualitative phenomena a comprehensive approach that makes accessible a wider range of more realistic applications The book starts and ends with discussions of mathematical modeling of real world phenomena evident in figures examples problems and applications throughout For the first time MyLab™ Math is available for the 5th Edition providing

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*Introduction to Ordinary Differential Equations with Mathematica* Alfred Gray, Michael Mezzino, Mark A. Pinsky, 1997-06-20 These materials developed and thoroughly class tested over many years by the authors are for use in courses at the sophomore junior level A prerequisite is the calculus of one variable although calculus of several variables and linear algebra are recommended The text covers the standard topics in first and second order equations power series solutions first order systems Laplace transforms numerical methods and stability of non linear systems Liberal use is made of programs in Mathematica both for symbolic computations and graphical displays The programs are described in separate sections as well as in the accompanying Mathematica notebooks However the book has been designed so that it can be read with or without Mathematica and no previous knowledge of Mathematica is required The CD ROM contains the Mathematica solution of worked examples a selection of various Mathematica notebooks Mathematica movies and sample labs for students Mathematica programs and additional problem example files will be available online through the TELOS Web site and the authors dedicated web site

**Differential Equations with Mathematica** Brian R. Hunt, Ronald L. Lipsman, John E. Osborn, Donald A. Outing, Jonathan M. Rosenberg, 2009-01-09 Differential Equations with Mathematica 3e is a supplemental text that can enrich and enhance any first course in ordinary differential equations Designed to accompany Wiley's ODE texts written by Brannan Boyce Boyce DiPrima Borrelli Coleman and Lomen Lovelock this supplement helps instructors move towards an earlier use of numerical and geometric methods place a greater emphasis on systems including nonlinear ones and increase discussions of both the benefits and possible pitfalls in numerical solution of ODEs By providing an introduction to the software that is integrated with the relevant mathematics Differential Equations with Mathematica can bring students to a level of expertise in the mathematical software system that will allow them to use it in other mathematics engineering or science courses

**Ordinary Differential Equations Using MATLAB** John C. Polking, David Arnold, 1999 Differential Equations and Boundary Value Problems Charles Henry Edwards, David Penney, David Calvis, 2022-11-20 For 1 semester

sophomore or junior level Differential Equations courses Balances concepts visualization and applications Differential Equations and Boundary Value Problems fosters the conceptual development and geometric visualization essential to science and engineering students Manual methods complement the computer based methods that illuminate qualitative phenomena opening up a wider range of more realistic applications One text now meets all course needs Courses not covering boundary value problems can use the 6th Edition with no added cost for that material This revision also adds and updates content throughout including an expanded Application Module that discusses COVID 19 Hallmark features of this title Emphasis on numerical methods includes early introduction of numerical solution techniques mathematical modeling stability and qualitative properties of differential equations with generic numerical algorithms that can be implemented in various technologies Application Modules follow key sections most with computing projects that reinforce the corresponding text sections Approximately 2000 problems range from computational to applied and conceptual problems An expansive answer section includes answers to most odd and even numbered problems Emphasis on technology and ODEs explores newer methods of computing differential equations covering the software systems tailored specifically to differential equations as well as Maple Mathematica and MATLAB New and updated features of this title New content includes a new application of differential equations to the life sciences in Application Module 6 4 The Rayleigh van der Pol and FitzHugh Nagumo Equations The SIR Model and COVID 19 Characterized by the same careful and thorough exposition found throughout the text this new unit gives students yet another perspective about differential equations Extensively revised design New use of full color enhances graphs and figures so that students can more easily discern different solutions in the figures Added marginal notes aid in understanding the mathematics in the text easier identification of application topics in the exercise set includes new run in problem titles new Your Turn headers in the Application Modules now clarify where the exposition ends and the students investigations begin 16 new Interactive Figures illustrate how interactive computer applications with slider bars or touchpad controls can be used to change initial values or parameters in a differential equation allowing students to immediately see in real time the resulting changes in the structure of its solutions Using a mouse or touchpad the initial point for an initial value problem can be dragged to a new location and the corresponding solution curve is automatically redrawn and dragged along with its initial point For examples see Figures 1 3 5 and 3 2 4 Features of MyLab Math for the 6th Edition Additional Exercises with immediate feedback Over 1000 assignable exercises are based on the textbook exercises and regenerate algorithmically to give students unlimited opportunity for practice and mastery MyLab Math provides helpful feedback when students enter incorrect answers and includes optional learning aids including Help Me Solve This View an Example videos and an eText New Set up Solve Exercises require students to describe how they will set up and approach the problem This reinforces conceptual understanding of the process applied in approaching the problem promotes long term retention of the skill and mirrors what students will be expected to do on a test Instructional videos provide meaningful

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