

# Differential Equation

## 1. Introduction :

An equation involving independent and dependent variables and the derivatives of the dependent variables is called a differential equation. There are two kinds of differential equation.

**1.1 Ordinary Differential Equation :** If the dependent variables depend on one independent variable  $x$ , then the differential equation is said to be ordinary.

for example  $\frac{dy}{dx} + \frac{dz}{dx} = y + z$ ,

$$\frac{dy}{dx} + xy = \sin x, \quad \frac{d^2y}{dx^2} + 2\frac{dy}{dx} + y = e^x,$$

$$k \frac{d^2y}{dx^2} = \left\{ 1 + \left( \frac{dy}{dx} \right)^2 \right\}^{3/2}, \quad y = x \frac{dy}{dx} + k \sqrt{1 + \left( \frac{dy}{dx} \right)^2}$$

**1.2 Partial differential equation :** If the dependent variables depend on two or more independent variables, then it is known as partial differential equation.

for example  $y^2 \frac{\partial^2 z}{\partial x^2} + x \frac{\partial^2 z}{\partial y^2} = ax, \quad \frac{\partial^2 z}{\partial x^2} + \frac{\partial^2 z}{\partial y^2} = 0$

## 2. Order and Degree of a Differential Equation:

**2.1 Order :** Order is the highest differential appearing in a differential equation.

**2.2 Degree :**

It is determined by the degree of the highest order derivative present in it, after the differential equation is cleared of radicals and fractions so far as the derivatives are concerned.

$$f_1(x, y) \left[ \frac{d^m y}{dx^m} \right]^{n_1} + f_2(x, y) \left[ \frac{d^{m-1} y}{dx^{m-1}} \right]^{n_2} + \dots + f_n(x, y) \left[ \frac{dy}{dx} \right]^{n_n} = 0$$

The above differential equation has the order  $m$  and degree  $n_1$ .

**Example :**

Find the order & degree of following differential equations.

(i)  $\frac{d^2y}{dx^2} = \left[ y + \left( \frac{dy}{dx} \right)^3 \right]^{1/4}$

(ii)  $y = e^{\left( \frac{dy}{dx} + \frac{d^2y}{dx^2} \right)}$

(iii)  $\sin \left( \frac{dy}{dx} + \frac{d^2y}{dx^2} \right) = y$

(iv)  $xy''' - xy'' + y = 0$

**Solution.**

(i)  $\left( \frac{d^2y}{dx^2} \right)^4 = y + \left( \frac{dy}{dx} \right)^3$

$\therefore$  order = 2, degree = 4

(ii)  $\frac{d^2y}{dx^2} + \frac{dy}{dx} = \sin y$

$\therefore$  order = 2, degree = 1

(iii)  $\frac{d^2y}{dx^2} + \frac{dy}{dx} = \sin^{-1} y$

$\therefore$  order = 2, degree = 1

(iv)  $\frac{d^3y}{dx^3} - x \frac{d^2y}{dx^2} + y = 0$

$\therefore$  equation can not be expressed as a polynomial in differential coefficients, so degree is not applicable but order is 3.

**Self Practice Problems :**

5. Find order and degree of the following differential equations.

(i)  $\frac{dy}{dx} + y = \frac{1}{\frac{dy}{dx}}$

Ans. order = 1, degree = 2

(ii)  $e^{\left( \frac{dy}{dx} + \frac{d^2y}{dx^2} \right)} = \sin \left( \frac{d^3y}{dx^3} + 1 \right)$

Ans. order = 3, degree = not applicable.

# Differential Equations Simmons Solutions

**Nail H Ibragimov**



## **Differential Equations Simmons Solutions:**

Student's Solutions Manual to Accompany Differential Equations George Finlay Simmons, Steven G. Krantz, Donald Hartig, 2006 This traditional text is intended for mainstream one or two semester differential equations courses taken by undergraduates majoring in engineering mathematics and the sciences Written by two of the world's leading authorities on differential equations Simmons Krantz provides a cogent and accessible introduction to ordinary differential equations written in classical style Its rich variety of modern applications in engineering physics and the applied sciences illuminate the concepts and techniques that students will use through practice to solve real life problems in their careers This text is part of the Walter Rudin Student Series in Advanced Mathematics

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Handbook of Differential Equations Daniel Zwillinger, 1998 This book compiles the most widely applicable methods for solving and approximating differential equations as well as numerous examples showing the methods use Topics include ordinary differential equations symplectic integration of differential equations and the use of wavelets when numerically solving differential equations For nearly every technique the book provides The types of equations to which the method is applicable The idea behind the method The procedure for carrying out the method At least one simple example of the method Any cautions that should be exercised Notes for more advanced users References to the literature for more discussion or more examples including pointers to electronic resources such as URLs

**Calculus II** Jerrold Marsden, A. Weinstein, 1998-01-09 The second of a three volume work this is the result of the authors experience teaching calculus at Berkeley The book covers techniques and applications of integration infinite series and differential equations the whole time motivating the study of calculus using its applications The authors include numerous solved problems as well as extensive exercises at the end of each section In addition a separate student guide has been prepared

*Numerical Solution of Ordinary Differential Equations* Donald Greenspan, 2008-09-26 This work meets the need for an affordable textbook that helps in understanding numerical solutions of ODE Carefully structured by an experienced textbook author it provides a survey of ODE for various applications both classical and modern including such special applications as relativistic systems The examples are carefully explained and compiled into an algorithm each of which is presented independent of a specific programming language Each chapter is rounded off with exercises

*Differential Equations with Applications and Historical Notes* George F. Simmons, 2016-11-17 Fads are as common in mathematics as in any other human activity and it is always difficult to separate the enduring from the ephemeral in the achievements of one's own time An unfortunate effect of the predominance of fads is that if a student doesn't learn about such worthwhile topics as the wave equation Gauss's hypergeometric function the gamma function and the basic problems of

the calculus of variations among others as an undergraduate then he/she is unlikely to do so later. The natural place for an informal acquaintance with such ideas is a leisurely introductory course on differential equations. Specially designed for just such a course, *Differential Equations with Applications and Historical Notes* takes great pleasure in the journey into the world of differential equations and their wide range of applications. The author, a highly respected educator, advocates a careful approach using explicit explanation to ensure students fully comprehend the subject matter. With an emphasis on modeling and applications, the long-awaited Third Edition of this classic textbook presents a substantial new section on Gauss's bell curve and improves coverage of Fourier analysis, numerical methods, and linear algebra. Relating the development of mathematics to human activity, i.e. identifying why and how mathematics is used, the text includes a wealth of unique examples and exercises as well as the author's distinctive historical notes throughout. Provides an ideal text for a one or two semester introductory course on differential equations. Emphasizes modeling and applications. Presents a substantial new section on Gauss's bell curve. Improves coverage of Fourier analysis, numerical methods, and linear algebra. Relates the development of mathematics to human activity, i.e. identifying why and how mathematics is used. Includes a wealth of unique examples and exercises as well as the author's distinctive historical notes throughout. Uses explicit explanation to ensure students fully comprehend the subject matter. Outstanding Academic Title of the Year Choice magazine American Library Association

*Solution Sets of Differential Equations in Abstract Spaces* Robert Dragoni, Paolo Nistri, Pietro Zecca, Jack W Macki, 1996-04-03 This book presents results on the geometric/topological structure of the solution set  $S$  of an initial value problem  $x'(t) = f(t, x(t))$ ,  $x(0) = x_0$  when  $f$  is a continuous function with values in an infinite dimensional space. A comprehensive survey of existence results and the properties of  $S$  e.g. when  $S$  is a connected set, a retract, an acyclic set is presented. The authors also survey results on the properties of  $S$  for initial value problems involving differential inclusions and for boundary value problems. This book will be of particular interest to researchers in ordinary and partial differential equations and some workers in control theory

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*Practical Course In Differential Equations And Mathematical Modelling, A: Classical And New Methods. Nonlinear Mathematical Models. Symmetry And Invariance Principles* Nail H Ibragimov, 2009-11-19 A Practical Course in Differential Equations and Mathematical Modelling is a unique blend of the traditional methods of ordinary and partial differential equations with Lie group analysis enriched by the author's own theoretical developments. The book, which aims to present new mathematical curricula based on symmetry and invariance principles, is tailored to develop analytic skills and working knowledge in both classical and Lie's methods for solving linear and nonlinear equations. This approach helps to

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**Handbook of Ordinary Differential Equations** Andrei D. Polyanin,Valentin F. Zaitsev,2017-11-15 The Handbook of Ordinary Differential Equations Exact Solutions Methods and Problems is an exceptional and complete reference for scientists and engineers as it contains over 7 000 ordinary differential equations with solutions This book

contains more equations and methods used in the field than any other book currently available Included in the handbook are exact asymptotic approximate analytical numerical symbolic and qualitative methods that are used for solving and analyzing linear and nonlinear equations The authors also present formulas for effective construction of solutions and many different equations arising in various applications like heat transfer elasticity hydrodynamics and more This extensive handbook is the perfect resource for engineers and scientists searching for an exhaustive reservoir of information on ordinary differential equations

**A Modern Introduction to Differential Equations** Henry J. Ricardo, 2009-02-24 A Modern Introduction to Differential Equations Second Edition provides an introduction to the basic concepts of differential equations The book begins by introducing the basic concepts of differential equations focusing on the analytical graphical and numerical aspects of first order equations including slope fields and phase lines The discussions then cover methods of solving second order homogeneous and nonhomogeneous linear equations with constant coefficients systems of linear differential equations the Laplace transform and its applications to the solution of differential equations and systems of differential equations and systems of nonlinear equations Each chapter concludes with a summary of the important concepts in the chapter Figures and tables are provided within sections to help students visualize or summarize concepts The book also includes examples and exercises drawn from biology chemistry and economics as well as from traditional pure mathematics physics and engineering This book is designed for undergraduate students majoring in mathematics the natural sciences and engineering However students in economics business and the social sciences with the necessary background will also find the text useful Student friendly readability assessible to the average student Early introduction of qualitative and numerical methods Large number of exercises taken from biology chemistry economics physics and engineering Exercises are labeled depending on difficulty sophistication End of chapter summaries Group projects

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**Maximum Principles for the Hill's Equation** Alberto Cabada, José Ángel Cid, Lucía López-Somoza, 2017-10-27 Maximum Principles for the Hill's Equation focuses on the application of these methods to nonlinear equations with singularities e g Brillouin bem focusing equation Ermakov Pinney and for problems with parametric dependence The authors discuss the properties of the related Green's functions coupled with different boundary value conditions In addition they establish the equations relationship with the spectral theory developed for the homogeneous case and discuss stability and constant sign solutions Finally reviews of present classical and recent results made by the authors and by other key authors are included Evaluates classical topics in the Hill's equation that are crucial for understanding modern physical models and non linear applications Describes explicit and effective conditions on maximum and anti maximum principles Collates information from disparate sources in one self contained volume with extensive referencing throughout

*Differential and Difference Equations through Computer Experiments* Hüseyin Kocak, 2012-12-06 This is a somewhat unusual book with a dual purpose First it is a manual to help readers learn how to use PRASER the program on the accompanying diskette for mM personal computers Second it is an illustrated guide to the wonderful world of experimental and theoretical dynamics one which presents dozens of concrete examples ranging from the most rudimentary appropriate for the beginning student to the highly complex suitable for the research mathematician Before indicating what PRASER does and how it works let me describe how it came about During the past decade the field of differential and difference equations has witnessed a remarkable explosion of knowledge not only in theory but also in applications to disciplines as diverse as biology and fluid mechanics Computers have played a crucial role in this process by making possible detailed analyses of specific systems In this regard one need only mention the work of Lorenz on strange attractors and the discoveries of Feigenbaum on the bifurcations of interval maps

**Proceedings of the London Mathematical Society**, 1887

**Numerical Methods for Fluid Dynamics** Dale R. Durran, 2010-09-14 This scholarly text provides an introduction to the numerical methods used to model partial differential equations with focus on atmospheric and oceanic flows The book covers both the essentials of building a numerical model and the more sophisticated techniques that are now available Finite difference methods spectral methods finite element method flux corrected methods and TVC schemes are all discussed Throughout the author keeps to a middle ground between the theorem proof formalism of a mathematical text and the highly empirical approach found in some engineering publications The book establishes a concrete link between theory and practice

using an extensive range of test problems to illustrate the theoretically derived properties of various methods From the reviews the books unquestionable advantage is the clarity and simplicity in presenting virtually all basic ideas and methods of numerical analysis currently actively used in geophysical fluid dynamics Physics of Atmosphere and Ocean



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