

Ordinary Differential Equations ⁽¹⁾

* Many physical laws, relations and engineering problems can be expressed mathematically in the form of differential equations. Such an equation is known as a mathematical model of the given problem.

* An ordinary differential equation (ODE) is an equation that contains one or several derivatives of an unknown function, usually denoted $y(x)$ or $y(t)$, of the independent variable x or t (respectively). For example,

$$(i) \quad y' = \sin x \quad \text{or} \quad \frac{dy}{dx} = \sin x$$

$$(ii) \quad y'' + 9y = e^{-3x} \quad \text{or} \quad \frac{d^2 y}{dx^2} + 9y = e^{-3x}$$

$$(iii) \quad y' y''' + \frac{5}{3} y'^2 = 0 \quad \text{or} \quad \frac{dy}{dx} \frac{d^3 y}{dx^3} + \frac{5}{3} \left(\frac{dy}{dx} \right)^2 = 0.$$

when partial derivatives are involved in an equation, we call it a partial differential equation (PDE). In this course, we study ordinary differential eqⁿ.

* An ODE is said to be of order n if ^{the} highest derivative of y involved in the equation is the n th derivative.
 * the power of the highest order derivative (after making all the derivatives in the equation free from fractional powers) is called the degree of the ODE.

* Examples
 The orders of (i), (ii) and (iii) above are 1, 2 and 3 respectively.

* First order ODEs

$$F(x, y, y') = 0 \quad (\text{Implicit form})$$

$$y' = f(x, y) \quad (\text{Explicit form})$$

the degrees of the ODEs in (i), (ii) & (iii) are 1, 1 & 1 respectively.

Example: $\frac{d^2 y}{dx^2} + \frac{1}{y} \left(2x \frac{dy}{dx} \right)^{\frac{3}{2}} = 0$
order = 2
degree = 2

Lectures On Differential Equations

E. Hille



Lectures On Differential Equations:

Lectures on Differential and Integral Equations K?saku Yoshida,1991-01-01 Lucid self contained exposition of theory of ordinary differential equations and integral equations Boundary value problem of second order linear ordinary differential equations Fredholm integral equations many other topics Bibliography 1960 edition **Lectures on Differential Equations** Solomon Lefschetz,1948 The description for this book Lectures on Differential Equations AM 14 Volume 14 will be forthcoming *Lectures on Partial Differential Equations* Vladimir I. Arnold,2013-06-29 Choice Outstanding Title January 2006 Like all of Vladimir Arnold s books this book is full of geometric insight Arnold illustrates every principle with a figure This book aims to cover the most basic parts of the subject and confines itself largely to the Cauchy and Neumann problems for the classical linear equations of mathematical physics especially Laplace s equation and the wave equation although the heat equation and the Korteweg de Vries equation are also discussed Physical intuition is emphasized A large number of problems are sprinkled throughout the book and a full set of problems from examinations given in Moscow are included at the end Some of these problems are quite challenging What makes the book unique is Arnold s particular talent at holding a topic up for examination from a new and fresh perspective He likes to blow away the fog of generality that obscures so much mathematical writing and reveal the essentially simple intuitive ideas underlying the subject No other mathematical writer does this quite so well as Arnold **Lectures on Differential Equations** Philip L. Korman,2019-08-30 Lectures on Differential Equations provides a clear and concise presentation of differential equations for undergraduates and beginning graduate students There is more than enough material here for a year long course In fact the text developed from the author s notes for three courses the undergraduate introduction to ordinary differential equations the undergraduate course in Fourier analysis and partial differential equations and a first graduate course in differential equations The first four chapters cover the classical syllabus for the undergraduate ODE course leavened by a modern awareness of computing and qualitative methods The next two chapters contain a well developed exposition of linear and nonlinear systems with a similarly fresh approach The final two chapters cover boundary value problems Fourier analysis and the elementary theory of PDEs The author makes a concerted effort to use plain language and to always start from a simple example or application The presentation should appeal to and be readable by students especially students in engineering and science Without being excessively theoretical the book does address a number of unusual topics Massera s theorem Lyapunov s inequality the isoperimetric inequality numerical solutions of nonlinear boundary value problems and more There are also some new approaches to standard topics including a rethought presentation of series solutions and a nonstandard but more intuitive proof of the existence and uniqueness theorem The collection of problems is especially rich and contains many very challenging exercises Philip Korman is professor of mathematics at the University of Cincinnati He is the author of over one hundred research articles in differential equations and the monograph Global Solution Curves for Semilinear Elliptic

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\mathbb{Z}_p by constructing the associated Frobenius structure For this construction we draw upon the methods of Alan Adolphson 1 in his 1976 work on Hecke polynomials We are also indebted to him for the account appearing as an appendix of the relation between this differential equation and certain L functions We are indebted to G Washnitzer for the method used in the construction of our dual theory Chapter 2 These notes represent an expanded form of lectures given at the U L P in Strasbourg during the fall term of 1980 We take this opportunity to thank Professor R Girard and IRMA for their hospitality Our subject p adic analysis was founded by Marc Krasner We take pleasure in dedicating this work to him Contents 1 Introduction 1 The Space L Algebraic Theory 8 2 Dual Theory Algebraic 14 3 Transcendental Theory 33 4 Analytic Dual Theory 48 5 Basic Properties of Operator 73 6 Calculation Modulo p of the Matrix of f h 92 7 Hasse Invariants 108 8 The a a Map 110 9 Normalized Solution Matrix 113 10 Nilpotent Second Order Linear Differential Equations with Fuchsian Singularities 137 11 Second Order Linear Differential Equations Modulo Powers of p

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