

Differential Equations

Practice Problems

Determine the order and degree of each of the following differential equations.

(i) $y \sec^2 x \, dx + \tan x \, dy = 0$

(ii) $\left(\frac{dy}{dx}\right)^4 + y^5 = \frac{d^3y}{dx^3}$

(iii) $a \frac{d^2y}{dx^2} = \left\{ 1 + \left(\frac{dy}{dx}\right)^2 \right\}^{\frac{3}{2}}$

(iv) $\tan^{-1} \sqrt{\frac{dy}{dx}} = x$ (v) $\log \left(\frac{d^2y}{dx^2}\right) = y$

(vi) $\frac{\frac{dy}{dt}}{y + \frac{dy}{dt}} = \frac{yt}{\frac{dy}{dt}}$ (vii) $\frac{d^2y}{du^2} = \frac{3y + \frac{dy}{du}}{\sqrt{\frac{d^2y}{du^2}}}$

(viii) $e^{dy} = x^2$

Order

Degree

Ans. (i)	1	1
(ii)	3	1
(iii)	2	2
(iv)	1	1
(v)	2	1
(vi)	1	2
(vii)	2	3
(viii)	1	1

Form the differential equation by eliminating the arbitrary constants in each of the following cases.

(i) $y = A \sec x$ (ii) $y = C \tan^{-1} x$

(iii) $y = Ae^t + Be^{2t}$ (iv) $y = Ax^2 + Bx$

(v) $y = a \cos x + b \sin x$

(vi) $y = a \sin^{-1} x + b \cos^{-1} x$

(vii) $y = at + be^t$

(viii) $y = a \sin t + be^t$

(ix) $ax^2 + by = 1$

Ans. (i) $y = A \sec x$

Then $\frac{dy}{dx} = A \sec x \tan x = y \tan x$

(ii) $y = C \tan^{-1} x \Rightarrow \frac{y}{\tan^{-1} x} = C$

$\Rightarrow \frac{d}{dx} \left(\frac{y}{\tan^{-1} x} \right) = 0$

$\Rightarrow \frac{\frac{dy}{dx} \cdot \tan^{-1} x - y \cdot \frac{1}{1+x^2}}{\left(\tan^{-1} x\right)^2} = 0$

$\Rightarrow \tan^{-1} x \frac{dy}{dx} - \frac{y}{1+x^2} = 0$

(iii) $y = Ae^t + Be^{2t}$... (1)

$\frac{dy}{dt} = Ae^t + 2Be^{2t}$... (2)

Subtracting (1) from (2) we get

$\frac{dy}{dt} - y = Be^{2t} \Rightarrow \left(\frac{dy}{dt} - y\right) \cdot e^{-2t} = B$

Differentiating again we get

$\left(\frac{d^2y}{dt^2} - \frac{dy}{dt}\right) \cdot e^{-2t} + \left(\frac{dy}{dt} - y\right) (-2e^{-2t}) = 0$

$\Rightarrow \frac{d^2y}{dt^2} - \frac{dy}{dt} - 2 \frac{dy}{dt} + 2y = 0$

$\Rightarrow \frac{d^2y}{dt^2} - 3 \frac{dy}{dt} + 2y = 0$

Differential Equations Problems And Solutions

Dominic William Jordan



Differential Equations Problems And Solutions:

Lectures, Problems And Solutions For Ordinary Differential Equations Yuefan Deng, 2014-09-02 This unique book on ordinary differential equations addresses practical issues of composing and solving such equations by large number of examples and homework problems with solutions These problems originate in engineering finance as well as science at appropriate levels that readers with the basic knowledge of calculus physics or economics are assumed able to follow

Nonlinear Ordinary Differential Equations: Problems and Solutions Dominic Jordan, Peter Smith, 2007-08-23 An ideal companion to the new 4th Edition of *Nonlinear Ordinary Differential Equations* by Jordan and Smith OUP 2007 this text contains over 500 problems and fully worked solutions in nonlinear differential equations With 272 figures and diagrams subjects covered include phase diagrams in the plane classification of equilibrium points geometry of the phase plane perturbation methods forced oscillations stability Mathieu's equation Liapunov methods bifurcations and manifolds homoclinic bifurcation and Melnikov's method The problems are of variable difficulty some are routine questions others are longer and expand on concepts discussed in *Nonlinear Ordinary Differential Equations* 4th Edition and in most cases can be adapted for coursework or self study Both texts cover a wide variety of applications whilst keeping mathematical prerequisites to a minimum making these an ideal resource for students and lecturers in engineering mathematics and the sciences

Differential Equations Problem Solver David Arterburn, 2012-06-14 REA's Problem Solvers is a series of useful practical and informative study guides Each title in the series is complete step by step solution guide The *Differential Equations Problem Solver* enables students to solve difficult problems by showing them step by step solutions to *Differential Equations* problems The *Problem Solvers* cover material ranging from the elementary to the advanced and make excellent review books and textbook companions They're perfect for undergraduate and graduate studies The *Differential Equations Problem Solver* is the perfect resource for any class any exam and any problem

Ordinary Differential Equations Morris Tenenbaum, Harry Pollard, 2012-04-24 This unusually well written skillfully organized introductory text provides an exhaustive survey of ordinary differential equations equations which express the relationship between variables and their derivatives In a disarmingly simple step by step style that never sacrifices mathematical rigor the authors Morris Tenenbaum of Cornell University and Harry Pollard of Purdue University introduce and explain complex critically important concepts to undergraduate students of mathematics engineering and the sciences The book begins with a section that examines the origin of differential equations defines basic terms and outlines the general solution of a differential equation the solution that actually contains every solution of such an equation Subsequent sections deal with such subjects as integrating factors dilution and accretion problems the algebra of complex numbers the linearization of first order systems Laplace Transforms Newton's Interpolation Formulas and Picard's Method of Successive Approximations The book contains two exceptional chapters one on series methods of solving differential equations the second on numerical methods of solving differential

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Differential Equations Mehdi

Rahmani-Andebili,2022-07-19 This study guide is designed for students taking courses in differential equations The textbook includes examples questions and exercises that will help engineering students to review and sharpen their knowledge of the subject and enhance their performance in the classroom Offering detailed solutions multiple methods for solving problems and clear explanations of concepts this hands on guide will improve student s problem solving skills and basic and advanced understanding of the topics covered in electric circuit analysis courses

Nonlinear Ordinary Differential Equations

Dominic William Jordan,2007

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 Book of Problems in Ordinary Differential Equations Mikhail Leont'evich

Krasnov,Aleksandr Ivanovich Kiselev,Grigorii Ivanovich Makarenko,1981

Problems and Solutions in Ordinary

Differential Equations Fred Brauer,John A. Nohel,1968

Student Solutions Manual, Boundary Value Problems

David L. Powers,2009-07-13 Student Solutions Manual Boundary Value Problems

Introductory Differential Equations

Martha L. Abell,James P. Braselton,2010-04-20 This text is for courses that are typically called Introductory Differential Equations Introductory Partial Differential Equations Applied Mathematics and Fourier Series Differential Equations is a text that follows a traditional approach and is appropriate for a first course in ordinary differential equations including Laplace transforms and a second course in Fourier series and boundary value problems Some schools might prefer to move the Laplace transform material to the second course which is why we have placed the chapter on Laplace transforms in its location in the text Ancillaries like Differential Equations with Mathematica and or Differential Equations with Maple would

be recommended and or required ancillaries Because many students need a lot of pencil and paper practice to master the essential concepts the exercise sets are particularly comprehensive with a wide range of exercises ranging from straightforward to challenging Many different majors will require differential equations and applied mathematics so there should be a lot of interest in an intro level text like this The accessible writing style will be good for non math students as well as for undergrad classes

Nonlinear Ordinary Differential Equations Dominic Jordan, Peter Smith, 2007-08-23 This is a thoroughly updated and expanded 4th edition of the classic text Nonlinear Ordinary Differential Equations by Dominic Jordan and Peter Smith Including numerous worked examples and diagrams further exercises have been incorporated into the text and answers are provided at the back of the book Topics include phase plane analysis nonlinear damping small parameter expansions and singular perturbations stability Liapunov methods Poincare sequences homoclinic bifurcation and Liapunov exponents Over 500 end of chapter problems are also included and as an additional resource fully worked solutions to these are provided in the accompanying text Nonlinear Ordinary Differential Equations Problems and Solutions OUP 2007 Both texts cover a wide variety of applications whilst keeping mathematical prerequisites to a minimum making these an ideal resource for students and lecturers in engineering mathematics and the sciences

Modern Differential Equations Martha L. Abell, James P. Braselton, 2001

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2 First Order Equations Separable Equations First Order Linear Equations Substitution Methods and Special Equations Exact Equations Theory of First Order Equations Numerical Methods for First Order Equations Summary Review Exercises Differential Equations at Work Modeling the Spread of a Disease Linear Population Model with Harvesting Logistic Model with Harvesting Logistic Model with Predation

3 Applications of First Order Equations Population Growth and Decay Newton's Law of Cooling and Related Problems Free Falling Bodies Summary Review Exercises Chapter 3 Differential Equations at Work Mathematics of Finance Algae Growth Dialysis Antibiotic Production

4 Higher Order Equations Second Order Equations An Introduction Solutions of Second Order Linear Homogeneous Equations with Constant Coefficients Higher Order Equations An Introduction Solutions to Higher Order Linear Homogeneous Equations with Constant Coefficients Introduction to Solving Nonhomogeneous Equations with Constant Coefficients Method of Undetermined Coefficients Nonhomogeneous Equations with Constant Coefficients Variation of Parameters Cauchy Euler Equations Series Solutions of Ordinary Differential Equations Summary Review Exercises Differential Equations at Work Testing for Diabetes Modeling the Motion of a Skier The Schrödinger Equation

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Undetermined Coefficients and Variation of Parameters Phase Portraits Nonlinear Systems Numerical Methods Summary
 Review Exercises Differential Equations at Work Modeling a Fox Population in Which Rabies is Present Controlling the
 Spread of Disease FitzHugh Nagumo Model 7 Applications of First Order Systems Mechanical and Electrical Problems with
 First Order Linear Systems Diffusion and Population Problems with First Order Linear Systems Nonlinear Systems of
 Equations Summary Review Exercises Differential Equations at Work Competing Species Food Chains Chemical Reactor 8
 Laplace Transforms The Laplace Transform Preliminary Definitions and Notation Solving Initial Value Problems with the
 Laplace Transform Laplace Transforms of Several Important Functions The Convolution Theorem Laplace Transform
 Methods for Solving Systems Applications Using Laplace Transforms Summary Review Exercises Differential Equations at
 Work The Tautochrone Vibration Absorbers Airplane Wing Free Vibration of a Three Story Building Control Systems 9
 Fourier Series Boundary Value Problems Eigenvalue Problems Sturm Liouville Problems Fourier Sine Series and Cosine
 Series Fourier Series Generalized Fourier Series Summary Review Exercises Differential Equations at Work Free Vibration of
 a Three Story Building Forced Damped Spring Mass System Approximations with Fourier Series 10 Partial Differential
 Equations Introduction to Partial Differential Equations and Separation of Variables The One Dimensional Heat Equation The
 One Dimensional Wave Equation Problems in Two Dimensions Laplace's Equation Two Dimensional Problems in a Circular
 Region Summary Review Exercises Differential Equations at Work Laplace Transforms Waves in a Steel Rod Media
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Prob & Sol Ordin (3rd Ed) Yuefan Deng, 2026-07-30 *The Differential Equations Problem Solver* Research and Education
 Association, Max Fogiel, 1978 This book is intended to help students in differential equations to find their way through the
 complex material which involves a wide variety of concepts Topic by topic and problem by problem the book provides
 detailed illustrations of solution methods which are usually not apparent to students **Boundary Value Problems From**
Higher Order Differential Equations Ravi P Agarwal, 1986-07-01 Contents Some Examples Linear Problems Green's
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Yuefan,2017 **The Numerical Solution of Two-point Boundary Problems in Ordinary Differential Equations** Leslie Fox,1957 Partial Differential Equations: Graduate Level Problems and Solutions Igor Yanovsky,2014-10-21 Partial Differential Equations Graduate Level Problems and SolutionsBy Igor Yanovsky **Numerical Solutions of Boundary Value Problems of Non-linear Differential Equations** Sujaul Chowdhury,Syed Badiuzzaman Faruque,Ponkog Kumar Das,2021-10-24 The book presents in comprehensive detail numerical solutions to boundary value problems of a number of non linear differential equations Replacing derivatives by finite difference approximations in these differential equations leads to a system of non linear algebraic equations which we have solved using Newton s iterative method In each case we have also obtained Euler solutions and ascertained that the iterations converge to Euler solutions We find that except for the boundary values initial values of the 1st iteration need not be anything close to the final convergent values of the numerical solution Programs in Mathematica 6 0 were written to obtain the numerical solutions

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Table of Contents Differential Equations Problems And Solutions

1. Understanding the eBook Differential Equations Problems And Solutions
 - The Rise of Digital Reading Differential Equations Problems And Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Differential Equations Problems And Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Differential Equations Problems And Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Differential Equations Problems And Solutions
 - Personalized Recommendations
 - Differential Equations Problems And Solutions User Reviews and Ratings
 - Differential Equations Problems And Solutions and Bestseller Lists

5. Accessing Differential Equations Problems And Solutions Free and Paid eBooks
 - Differential Equations Problems And Solutions Public Domain eBooks
 - Differential Equations Problems And Solutions eBook Subscription Services
 - Differential Equations Problems And Solutions Budget-Friendly Options
6. Navigating Differential Equations Problems And Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Differential Equations Problems And Solutions Compatibility with Devices
 - Differential Equations Problems And Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Differential Equations Problems And Solutions
 - Highlighting and Note-Taking Differential Equations Problems And Solutions
 - Interactive Elements Differential Equations Problems And Solutions
8. Staying Engaged with Differential Equations Problems And Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Differential Equations Problems And Solutions
9. Balancing eBooks and Physical Books Differential Equations Problems And Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Differential Equations Problems And Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Differential Equations Problems And Solutions
 - Setting Reading Goals Differential Equations Problems And Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Differential Equations Problems And Solutions
 - Fact-Checking eBook Content of Differential Equations Problems And Solutions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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