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

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

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

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

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

	Order	Degree
Asn. (i)	1	1
(ii)	3	1
(iii)	2	2
(iv)	1	1
(v)	2	1
(vi)	1	2
(vii)	2	3
(viii)	1	1

2. **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 $\dfrac{dy}{dx} = A \sec x \tan x = y \tan x$

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

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

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

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

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

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

Subtracting (1) from (2) we get

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

Differentiating again we get

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

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

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

Problems And Examples In Differential Equations

Yuefan Deng

Problems And Examples In Differential Equations:

 500 Examples and Problems of Applied Differential Equations Ravi P. Agarwal,Simona Hodis,Donal O'Regan,2019-09-24 This book highlights an unprecedented number of real life applications of differential equations together with the underlying theory and techniques The problems and examples presented here touch on key topics in the discipline including first order linear and nonlinear differential equations second and higher order differential equations first order differential systems the Runge Kutta method and nonlinear boundary value problems Applications include growth of bacterial colonies commodity prices suspension bridges spreading rumors modeling the shape of a tsunami planetary motion quantum mechanics circulation of blood in blood vessels price demand supply relations predator prey relations and many more Upper undergraduate and graduate students in Mathematics Physics and Engineering will find this volume particularly useful both for independent study and as supplementary reading While many problems can be solved at the undergraduate level a number of challenging real life applications have also been included as a way to motivate further research in this vast and fascinating field **Problems and Examples in Differential Equations** Piotr Biler,Tadeusz Nadzieja,1992-07-21 This book presents original problems from graduate courses in pure and applied mathematics and even small research topics significant theorems and information on recent results It is helpful for specialists working in differential equations

 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

 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 **Boundary Value Problems From Higher Order Differential Equations** Ravi P Agarwal,1986-07-01 Contents Some ExamplesLinear ProblemsGreen s FunctionMethod of Complementary FunctionsMethod of AdjointsMethod of ChasingSecond Order EquationsError Estimates in Polynomial InterpolationExistence and UniquenessPicard s and Approximate Picard s MethodQuasilinearization and Approximate QuasilinearizationBest Possible Results Weight Function

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transforms Each chapter concludes with summaries that outline key concepts Readers are provided the opportunity to test their comprehension of the presented material through numerous problems ranked by their level of complexity and a related website features supplemental data and resources Extensively class tested to ensure an accessible presentation Partial Differential Equations is an excellent book for engineering mathematics and applied science courses on the topic at the upper undergraduate and graduate levels **Inverse Problems of Mathematical Physics** Vladimir Gavrilovich Romanov,1987

Problems and Solutions in Mathematics Ji-Xiu Chen,2011 This book contains a selection of more than 500 mathematical problems and their solutions from the PhD qualifying examination papers of more than ten famous American universities The mathematical problems cover six aspects of graduate school mathematics Algebra Topology Differential Geometry Real Analysis Complex Analysis and Partial Differential Equations While the depth of knowledge involved is not beyond the contents of the textbooks for graduate students discovering the solution of the problems requires a deep understanding of the mathematical principles plus skilled techniques For students this book is a valuable complement to textbooks Whereas for lecturers teaching graduate school mathematics it is a helpful reference Lectures, Problems and Solutions for Ordinary Differential Equations Deng Yuefan,2017 **Problems in Differential Equations** J. L. Brenner,2013-01-01 Originally published San Francisco W H Freeman 1963 Partial Differential Equations T. Hillen,I.E. Leonard,H. van Roessel,2019-05-15 Provides more than 150 fully solved problems for linear partial differential equations and boundary value problems Partial Differential Equations Theory and Completely Solved Problems offers a modern introduction into the theory and applications of linear partial differential equations PDEs It is the material for a typical third year university course in PDEs The material of this textbook has been extensively class tested over a period of 20 years in about 60 separate classes The book is divided into two parts Part I contains the Theory part and covers topics such as a classification of second order PDEs physical and biological derivations of the heat wave and Laplace equations separation of variables Fourier series D Alembert s principle Sturm Liouville theory special functions Fourier transforms and the method of characteristics Part II contains more than 150 fully solved problems which are ranked according to their difficulty The last two chapters include sample Midterm and Final exams for this course with full solutions **Elementary Differential Equations and Boundary Value Problems** William E. Boyce,Richard C. DiPrima,Douglas B. Meade,2022 Boyce s Elementary Differential Equations and Boundary Value Problems is written from the viewpoint of the applied mathematician with diverse interest in differential equations ranging from quite theoretical to intensely practical and usually a combination of both The intended audience for the text is undergraduate STEM students taking an introductory course in differential equations The main prerequisite for engaging with the program is a working knowledge of calculus gained from a normal two or three semester course sequence or its equivalent while a basic familiarity with matrices is helpful This new edition of the book aims to preserve and to enhance the qualities that have made previous editions so successful It offers a sound and accurate exposition of the

elementary theory of differential equations with considerable material on methods of solution analysis and approximation that have proved useful in a wide variety of applications   A Book of Problems in Ordinary Differential Equations Mikhail Leont'evich Krasnov,Aleksandr Ivanovich Kiselev,Grigoriĭ Ivanovich Makarenko,1981   *Differential Equations with Boundary Value Problems* James R. Brannan,2010-11-08 Unlike other books in the market this second edition presents differential equations consistent with the way scientists and engineers use modern methods in their work Technology is used freely with more emphasis on modeling graphical representation qualitative concepts and geometric intuition than on theoretical issues It also refers to larger scale computations that computer algebra systems and DE solvers make possible And more exercises and examples involving working with data and devising the model provide scientists and engineers with the tools needed to model complex real world situations   **Introductory Differential Equations** Martha L. Abell,James P. Braselton,2014-08-19 Introductory Differential Equations Fourth Edition offers both narrative explanations and robust sample problems for a first semester course in introductory ordinary differential equations including Laplace transforms and a second course in Fourier series and boundary value problems The book 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 This text is for courses that are typically called Introductory Differential Equations Introductory Partial Differential Equations Applied Mathematics and Fourier Series It follows a traditional approach and includes ancillaries like Differential Equations with Mathematica and or Differential Equations with Maple 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 array of exercises ranging from straightforward to challenging There are also new applications and extended projects made relevant to everyday life through the use of examples in a broad range of contexts This book will be of interest to undergraduates in math biology chemistry economics environmental sciences physics computer science and engineering Provides the foundations to assist students in learning how to read and understand the subject but also helps students in learning how to read technical material in more advanced texts as they progress through their studies Exercise sets are particularly comprehensive with a wide range of exercises ranging from straightforward to challenging Includes new applications and extended projects made relevant to everyday life through the use of examples in a broad range of contexts Accessible approach with applied examples and will be good for non math students as well as for undergrad classes   Scientific Computing with Mathematica® Addolorata Marasco,Antonio Romano,2012-12-06 Many interesting behaviors of real physical biological economical and chemical systems can be described by ordinary differential equations ODEs Scientific Computing with Mathematica for Ordinary Differential Equations provides a general framework useful for the applications on the conceptual aspects of the theory of ODEs as well as a sophisticated use of Mathematica software for the solutions of problems related to ODEs In particular a chapter is devoted to the use ODEs and Mathematica in

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This book delves into Problems And Examples In Differential Equations. Problems And Examples In Differential Equations is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Problems And Examples In Differential Equations, encompassing both the fundamentals and more intricate discussions.

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    - Chapter 1: Introduction to Problems And Examples In Differential Equations
    - Chapter 2: Essential Elements of Problems And Examples In Differential Equations
    - Chapter 3: Problems And Examples In Differential Equations in Everyday Life
    - Chapter 4: Problems And Examples In Differential Equations in Specific Contexts
    - Chapter 5: Conclusion

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6. In chapter 5, the author will draw a conclusion about Problems And Examples In Differential Equations. The final chapter will summarize the key points that have been discussed throughout the book.
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