

Partial and Ordinary Differential Equations

Find the solution of below differential equation

$$\frac{dy}{dx} + \frac{1}{1-\sqrt{5}} \cdot \frac{y}{x} = \frac{1}{1-\sqrt{5}} \cdot \left(\frac{1}{x^3} + \frac{1}{x} \right) \cdot y^{\sqrt{5}}$$

Select one:

☐ $y^{1-\sqrt{5}} = 1 - 2x^{-2} - cx^{-2}, \quad c \in \mathbb{R}$

☐ $y^{1-\sqrt{5}} = 1 - x^{-3} + cx^{-1}, \quad c \in \mathbb{R}$

☐ $y^{1-\sqrt{5}} = -x^{-2} + c(1+x^{-3}), \quad c \in \mathbb{R}$

☐ $y^{1-\sqrt{5}} = x - x^{-2} + cx^{-1}, \quad c \in \mathbb{R}$

☐ $y^{1-\sqrt{5}} = 1 - x^{-2} + cx^{-1}, \quad c \in \mathbb{R}$

Of Problems In Ordinary Differential

Jicheng Xie



Of Problems In Ordinary Differential:

A Book of Problems in Ordinary Differential Equations Mikhail Leont'evich Krasnov, Aleksandr Ivanovich Kiselev, Grigoriĭ Ivanovich Makarenko, 1981 **Solving Ordinary Differential Equations I** Ernst Hairer, Syvert P. Nørsett, Gerhard Wanner, 2008-04-03 This book deals with methods for solving nonstiff ordinary differential equations The first chapter describes the historical development of the classical theory and the second chapter includes a modern treatment of Runge Kutta and extrapolation methods Chapter three begins with the classical theory of multistep methods and concludes with the theory of general linear methods The reader will benefit from many illustrations a historical and didactic approach and computer programs which help him/her learn to solve all kinds of ordinary differential equations This new edition has been rewritten and new material has been included **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 *A Book of Problems in Ordinary Differential Equations* Mijail Leontievich Krasnov, M. K. Krasnov, Aleksandr I. Kiseliiov, Grigoriĭ Ivanovich Makarenko, 1994 **A book of problems in ordinary differential equations** Mihail Leont'evič Krasnov, Vladimir Šokurov, Aleksandr Ivanovič Kiselev, Grigorij Ivanovič Makarenko, 1978 *Ordinary Differential Equations And Calculus Of Variations* Victor Yu Reshetnyak, Mikola Vladimirovich Makarets, 1995-06-30 This problem book contains exercises for courses in differential equations and calculus of variations at universities and technical institutes It is designed for non mathematics students and also for scientists and practicing engineers who feel a need to refresh their knowledge The book contains more than 260 examples and about 1400 problems to be solved by the students much of which have been composed by the authors themselves Numerous references are given at the end of the book to furnish sources for detailed theoretical approaches and expanded treatment of applications **A book of problems** M. L. Krasnov, A. I. Kiselev, G. I. Makarenko, 1983 *Solving Ordinary Differential Equations II* Ernst Hairer, Syvert Paul Nørsett, Gerhard Wanner, 1993 The subject of this book is the solution of stiff differential equations and of differential algebraic systems This second edition contains new material including new numerical tests recent progress in numerical differential algebraic equations and improved FORTRAN codes From the reviews A superb book Throughout illuminating graphics sketches and quotes from papers of researchers in the field add an element of easy informality and motivate the text MATHEMATICS TODAY **Theory and Examples of Ordinary Differential Equations** Chin-Yuan Lin, 2011 This book presents a complete theory of ordinary differential equations with many illustrative examples and interesting exercises A rigorous treatment is offered in this book with clear proofs for the theoretical results and with detailed solutions for the examples and problems This book is intended for undergraduate students who major in

mathematics and have acquired a prerequisite knowledge of calculus and partly the knowledge of a complex variable and are now reading advanced calculus and linear algebra. Additionally, the comprehensive coverage of the theory with a wide array of examples and detailed solutions would appeal to mathematics graduate students and researchers as well as graduate students in majors of other disciplines. As a handy reference, advanced knowledge is provided in this book with details developed beyond the basics. Optional sections where main results are extended offer an understanding of further applications of ordinary differential equations.

Handbook of Differential Equations: Ordinary Differential Equations A. Canada, P. Drabek, A. Fonda, 2006-08-21. This handbook is the third volume in a series of volumes devoted to self-contained and up-to-date surveys in the theory of ordinary differential equations written by leading researchers in the area. All contributors have made an additional effort to achieve readability for mathematicians and scientists from other related fields so that the chapters have been made accessible to a wide audience. These ideas faithfully reflect the spirit of this multi-volume and hopefully it becomes a very useful tool for research, learning and teaching. This volume consists of seven chapters covering a variety of problems in ordinary differential equations. Both pure mathematical research and real-world applications are reflected by the contributions to this volume. Covers a variety of problems in ordinary differential equations. Pure mathematical and real-world applications. Written for mathematicians and scientists of many related fields.

Numerical Solution of Boundary Value Problems for Ordinary Differential Equations Uri M. Ascher, Robert M. M. Mattheij, Robert D. Russell, 1988-01-01. This book is the most comprehensive up-to-date account of the popular numerical methods for solving boundary value problems in ordinary differential equations. It aims at a thorough understanding of the field by giving an in-depth analysis of the numerical methods by using decoupling principles. Numerous exercises and real-world examples are used throughout to demonstrate the methods and the theory. Although first published in 1988, this republication remains the most comprehensive theoretical coverage of the subject matter not available elsewhere in one volume. Many problems arising in a wide variety of application areas give rise to mathematical models which form boundary value problems for ordinary differential equations. These problems rarely have a closed-form solution and computer simulation is typically used to obtain their approximate solution. This book discusses methods to carry out such computer simulations in a robust, efficient and reliable manner.

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

Book of Problems in Ordinary Differential Equations VLADIMIR SHOKUROV.,2018 **Numerical Solutions of Boundary Value Problems for Ordinary Differential Equations** A.K. Aziz,2014-05-10 Numerical Solutions of Boundary Value Problems for Ordinary Differential Equations covers the proceedings of the 1974 Symposium by the same title held at the University of Maryland Baltimore Country Campus This symposium aims to bring together a number of numerical analysis involved in research in both theoretical and practical aspects of this field This text is organized into three parts encompassing 15 chapters Part I reviews the initial and boundary value problems Part II explores a large number of important results of both theoretical and practical nature of the field including discussions of the smooth and local interpolant with small K th derivative the occurrence and solution of boundary value reaction systems the posteriori error estimates and boundary problem solvers for first order systems based on deferred corrections Part III highlights the practical applications of the boundary value problems specifically a high order finite difference method for the solution of two point boundary value problems on a uniform mesh This book will prove useful to mathematicians engineers and physicists A book of problems in ordinary differential equations Mihail Leontievic Krasnov,1981 **Asymptotic Behavior and Stability Problems in Ordinary Differential Equations** Lamberto Cesari,2012-12-06 In the last few decades the theory of ordinary differential equations has grown rapidly under the action of forces which have been working both from within and without from within as a development and deepening of the concepts and of the topological and analytical methods brought about by LYAPUNOV POINCARÉ BENDIXSON and a few others at the turn of the century from without in the wake of the technological development particularly in communications servomechanisms automatic controls and electronics The early research of the authors just mentioned lay in challenging problems of astronomy but the line of thought thus produced found the most impressive applications in the new fields The body of research now accumulated is overwhelming and many books and reports have appeared on one or another of the multiple aspects of the new line of research which some authors call qualitative theory of differential equations The purpose of the present volume is to present many of the view points and questions in a readable short report for which completeness is not claimed The bibliographical notes in each section are intended to be a guide to more detailed expositions and to the original papers Some traditional topics such as the Sturm comparison theory have been omitted Also excluded were all those papers dealing with special differential equations motivated by and intended for the applications **The Numerical Solution of Two-point Boundary Problems in Ordinary Differential Equations** Leslie Fox,1957 *Numerical Solutions of Boundary Value Problems for Ordinary Differential Equations* National Science Foundation (United States),1975 **BOOK OF PROBLEMS IN ORDINARY DIFFERENTIAL EQUATIONS** ,1989 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

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