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# Qualitative Theory of Differential Equations



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## **Qualitative Theory Of Differential Equat:**

*The Qualitative Theory of Ordinary Differential Equations* Fred Brauer, John A. Nohel, 1989-01-01 This is a very good book with many well chosen examples and illustrations American Mathematical Monthly This highly regarded text presents a self contained introduction to some important aspects of modern qualitative theory for ordinary differential equations It is accessible to any student of physical sciences mathematics or engineering who has a good knowledge of calculus and of the elements of linear algebra In addition algebraic results are stated as needed the less familiar ones are proved either in the text or in appendixes The topics covered in the first three chapters are the standard theorems concerning linear systems existence and uniqueness of solutions and dependence on parameters The next three chapters the heart of the book deal with stability theory and some applications such as oscillation phenomena self excited oscillations and the regulator problem of Lurie One of the special features of this work is its abundance of exercises routine computations completions of mathematical arguments extensions of theorems and applications to physical problems Moreover they are found in the body of the text where they naturally occur offering students substantial aid in understanding the ideas and concepts discussed The level is intended for students ranging from juniors to first year graduate students in mathematics physics or engineering however the book is also ideal for a one semester undergraduate course in ordinary differential equations or for engineers in need of a course in state space methods

**Qualitative Theory of Differential Equations** Miklós Farkas, 1981 **A First Course in the Qualitative Theory of Differential Equations** James Hetao Liu, 2003 This book provides a complete analysis of those subjects that are of fundamental importance to the qualitative theory of differential equations and related to current research including details that other books in the field tend to overlook Chapters 1 7 cover the basic qualitative properties concerning existence and uniqueness structures of solutions phase portraits stability bifurcation and chaos Chapters 8 12 cover stability dynamical systems and bounded and periodic solutions A good reference book for teachers researchers and other professionals

**Ordinary Differential Equations** Luis Barreira, Claudia Valls, 2012-06-06 This textbook provides a comprehensive introduction to the qualitative theory of ordinary differential equations It includes a discussion of the existence and uniqueness of solutions phase portraits linear equations stability theory hyperbolicity and equations in the plane The emphasis is primarily on results and methods that allow one to analyze qualitative properties of the solutions without solving the equations explicitly The text includes numerous examples that illustrate in detail the new concepts and results as well as exercises at the end of each chapter The book is also intended to serve as a bridge to important topics that are often left out of a course on ordinary differential equations In particular it provides brief introductions to bifurcation theory center manifolds normal forms and Hamiltonian systems

*Qualitative Theory of Differential Equations* Viktor Vladimirovich Nemytskii, 2015-12-08 Book 22 in the Princeton Mathematical Series Originally published in 1960 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books

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**Qualitative Theory of Differential Equations** Viktor Vladimirovich Nemytskii, V. V. Stepanov, 1960

**Qualitative Theory of Differential Equations** Zhifen Zhang, 1992 Subriemannian geometries also known as Carnot-Carathéodory geometries can be viewed as limits of Riemannian geometries They also arise in physical phenomenon involving geometric phases or holonomy Very roughly speaking a subriemannian geometry consists of a manifold endowed with a distribution meaning a  $k$ -plane field or subbundle of the tangent bundle called horizontal together with an inner product on that distribution If  $k < n$  the dimension of the manifold we get the usual Riemannian geometry Given a subriemannian geometry we can define the distance between two points just as in the Riemannian case except we are only allowed to travel along the horizontal lines between two points The book is devoted to the study of subriemannian geometries their geodesics and their applications It starts with the simplest nontrivial example of a subriemannian geometry the two dimensional isoperimetric problem reformulated as a problem of finding subriemannian geodesics Among topics discussed in other chapters of the first part of the book the author mentions an elementary exposition of Gromov's surprising idea to use subriemannian geometry for proving a theorem in discrete group theory and Cartan's method of equivalence applied to the problem of understanding invariants diffeomorphism types of distributions There is also a chapter devoted to open problems The second part of the book is devoted to applications of subriemannian geometry In particular the author describes in detail the following four physical problems Berry's phase in quantum mechanics the problem of a falling cat righting herself that of a microorganism swimming and a phase problem arising in the  $N$ -body problem He shows that all these problems can be studied using the same underlying type of subriemannian geometry that of a principal bundle endowed with  $G$ -invariant metrics Reading the book requires introductory knowledge of differential geometry and it can serve as a good introduction to this new exciting area of mathematics This book provides an introduction to and a comprehensive study of the qualitative theory of ordinary differential equations It begins with fundamental theorems on existence uniqueness and initial conditions and discusses basic principles in dynamical systems and Poincaré-Bendixson theory The authors present a careful analysis of solutions near critical points of linear and nonlinear planar systems and discuss indices of planar critical points A very thorough study of limit cycles is given including many results on quadratic systems and recent developments in China Other topics included are the critical point at infinity harmonic solutions for periodic differential equations systems of ordinary differential equations on the torus and structural stability for systems on two dimensional manifolds This book is accessible to graduate students and advanced undergraduates and is also of interest to researchers in this area Exercises are included at the end of each chapter

**Ordinary Differential Equations** Jane Cronin, 2007-12-14 Designed for a rigorous first

course in ordinary differential equations Ordinary Differential Equations Introduction and Qualitative Theory Third Edition includes basic material such as the existence and properties of solutions linear equations autonomous equations and stability as well as more advanced topics in periodic solutions of Introduction to the Qualitative Theory of Differential Systems Jaume Llibre, Antonio E. Teruel, 2013-10-30 The book deals with continuous piecewise linear differential systems in the plane with three pieces separated by a pair of parallel straight lines Moreover these differential systems are symmetric with respect to the origin of coordinates This class of systems driven by concrete applications is of interest in engineering in particular in control theory and the design of electric circuits By studying these particular differential systems we will introduce the basic tools of the qualitative theory of ordinary differential equations which allow us to describe the global dynamics of these systems including the infinity The behavior of their solutions their parametric stability or instability and their bifurcations are described The book is very appropriate for a first course in the qualitative theory of differential equations or dynamical systems mainly for engineers mathematicians and physicists **Qualitative theory of differential equations, by V.V. Nemytskii and V.V. Stepanov** Viktor Vladimirovich Nemytskii, Viacheslav Vasil'evich Stepanov, 1988 Ordinary Differential Equations Hartmut Logemann, Eugene P. Ryan, 2014-07-08 The book comprises a rigorous and self contained treatment of initial value problems for ordinary differential equations It additionally develops the basics of control theory which is a unique feature in current textbook literature The following topics are particularly emphasised existence uniqueness and continuation of solutions continuous dependence on initial data flows qualitative behaviour of solutions limit sets stability theory invariance principles introductory control theory feedback and stabilization The last two items cover classical control theoretic material such as linear control theory and absolute stability of nonlinear feedback systems It also includes an introduction to the more recent concept of input to state stability Only a basic grounding in linear algebra and analysis is assumed Ordinary Differential Equations will be suitable for final year undergraduate students of mathematics and appropriate for beginning postgraduates in mathematics and in mathematically oriented engineering and science Qualitative Theory of Differential Equations Viktor Vladimirovich Nemytskii, Viacheslav Vasil'evich Stepanov, Katsumasa Matsumoto, 1947 Qualitative Theory of Differential Equations, 1981 *Approaches To The Qualitative Theory Of Ordinary Differential Equations: Dynamical Systems And Nonlinear Oscillations* Tong-ren Ding, 2007-08-13 This book is an ideal text for advanced undergraduate students and graduate students with an interest in the qualitative theory of ordinary differential equations and dynamical systems Elementary knowledge is emphasized by the detailed discussions on the fundamental theorems of the Cauchy problem fixed point theorems especially the twist theorems the principal idea of dynamical systems the nonlinear oscillation of Duffing's equation and some special analyses of particular differential equations It also contains the latest research by the author as an integral part of the book *Qualitative Theory Of Odes: An Introduction To Dynamical Systems Theory* Henryk Zoladek, Raul Murillo, 2022-10-21 The

Qualitative Theory of Ordinary Differential Equations ODEs occupies a rather special position both in Applied and Theoretical Mathematics On the one hand it is a continuation of the standard course on ODEs On the other hand it is an introduction to Dynamical Systems one of the main mathematical disciplines in recent decades Moreover it turns out to be very useful for graduates when they encounter differential equations in their work usually those equations are very complicated and cannot be solved by standard methods The main idea of the qualitative analysis of differential equations is to be able to say something about the behavior of solutions of the equations without solving them explicitly Therefore in the first place such properties like the stability of solutions stand out It is the stability with respect to changes in the initial conditions of the problem Note that even with the numerical approach to differential equations all calculations are subject to a certain inevitable error Therefore it is desirable that the asymptotic behavior of the solutions is insensitive to perturbations of the initial state Each chapter contains a series of problems with varying degrees of difficulty and a self respecting student should solve them This book is based on Raul Murillo s translation of Henryk o dek s lecture notes which were in Polish and edited in the portal Matematyka Stosowana Applied Mathematics in the University of Warsaw

**Methods of Qualitative Theory of Differential Equations and Related Topics** Lev M. Lerman, 2000

**Ordinary Differential Equations** Jane Cronin, 1994-02-15 This text now in its second edition presents the basic theory of ordinary differential equations and relates the topological theory used in differential equations to advanced applications in chemistry and biology It provides new motivations for studying extension theorems and existence theorems supplies real world examples gives an early introduction to the use of geometric methods and offers a novel treatment of the Sturm Liouville theory

Differential Equations Béla Szőkefalvi-Nagy, L. Hatvani, 1987

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