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Qualitative theory of differential equations pdf book free printable version

Unable to display preview. Download preview PDF. Suitable for senior mathematics students, the text begins with an examination of differential equations of the first order in one unknown function. 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. 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. A. InceFormatBookPage Count576Dimensions5 1/2 x 8 1/2Page 5This 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. Exhaustive sections on the existence and nature of solutions, continuous transformation groups, the algebraic theory of linear differential systems, and the solution of differential equations by contour integration are as valuable to the pure mathematician as the fine treatment of the equations of Legendre, Bessel, and Mathieu, the conditions for the oscillatory character of solutions of a differential equation, and the relation between a linear differential system and an integral equation are to the engineer and the physicist.Partial contents: real domain (elementary methods of integration, the existence and nature of solutions, continuous transformation-groups, linear differential equations-the general theory, with constant coefficients, solutions, algebraic theory, Sturmian theory, and later developments); complex domain (existence theorems, equations of first order, non-linear equations of higher order, solutions, systems, classifications of linear equations, oscillation theorems)."Highly recommended." — Electronics Industries. Presuming a knowledge of basic calculus, the book first reviews the mathematical essentials required to master the materials to be presented. 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. It additionally develops the basics of control theory, which is a unique feature in the 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. This is a preview of subscription content, access via your institution. Page 2 The theory of differential equations impinges on many branches of pure and applied mathematics.KeywordsCircular OrbitPrey PopulationInverted PendulumPredator PopulationMaximal SolutionThese keywords were added by machine and not by the authors. Not only classical theory, but also the main developments of modern times are covered. "Deserves the highest praise." — Bulletin, American Mathematical Society.AvailabilityOut of StockISBN 100486603490ISBN 139780486603490Author/EditorEdward L. Existence and uniqueness theorems receive a rigorous treatment, and the text concludes with a survey of linear boundary value problems. It also includes an introduction to the more recent concept of input-to-state stability. This concise text offers undergraduates in mathematics and science a thorough and systematic first course in elementary differential equations. "This is a very good book ... Starting with two-dimensional linear systems, the author reviews the use of polar coordinate techniques as well as Liapunov stability and elementary ideas from dynamic systems. 39 figures.Reprint of the Academic Press, Orlando, Florida, 1986 edition.AvailabilityUsually ships in 24 to 48 hoursISBN 100486434788ISBN 139780486434780Author/EditorPaul WaltmanFormatBookPage Count272Dimensions6.14 x 9.21Ordinary Differential Equations��Product Review The book comprises a rigorous and self-contained treatment of initial-value problems for ordinary differential equations. The book concludes with an in-depth examination of existence and uniqueness theorems about a variety of differential equations, as well as an introduction to the theory of determinants and theorems about Wronskians.Reprint of the Harper & Row, Publishers, 1963 edition.AvailabilityUsually ships in 24 to 48 hoursISBN 100486649407ISBN 139780486649405Author/EditorMorris Tenenbaum, Harry PollardFormatBookPage Count832Dimensions5 3/8 x 8 1/2Page 6 Add to WishlistFocusing on applicable rather than applied mathematics, this versatile text is appropriate for advanced undergraduates majoring in any discipline. with many well-chosen examples and illustrations." — American Mathematical MonthlyThis highly regarded text presents a self-contained introduction to some important aspects of modern qualitative theory for ordinary differential equations. 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. Benjamin, New York, 1969 edition.AvailabilityUsually ships in 24 to 48 hoursISBN 100486658465ISBN 139780486658469Author/EditorFred Brauer, John A. CoddingtonFormatBookPage Count320Page 4The theory of ordinary differential equations in real and complex domains is here clearly explained and analyzed. 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. Reprint of the W. Dr. Coddington, who has taught at MIT, Princeton, and UCLA, has included many exercises designed to develop the student's technique in solving equations. NohelFormatBookPage Count320Dimensions5 1/2 x 8 1/2Page 2Hailed by The American Mathematical Monthly as "a rigorous and lively introduction," this text explores a topic of perennial interest in mathematics. A thorough examination of linear systems of differential equations inaugurates the text, reviewing concepts from linear algebra and basic theory. An abundance of solved problems and practice exercises enhances the value of Ordinary Differential Equations as a classroom text for undergraduate students and teaching professionals. The last two items cover classical control theoretic material such as linear control theory and absolute stability of nonlinear feedback systems. 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. Reprint of the MIT Press, Cambridge, Massachusetts, 1958 edition.AvailabilityOut of StockISBN 100486664201ISBN 139780486664200Author/EditorWitold HurewiczFormatBookPage Count144Dimensions5 1/2 x 8 1/2Page 3"Written in an admirably cleancut and economical style." — Mathematical Reviews. The first includes a discussion of the Legendre Differential Equation, Legendre Functions, Legendre Polynomials, the Bessel Differential Equation, and the Laguerre Differential Equation. 1986 edition. 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. Throughout the book, the author carries the theory far enough to include the statements and proofs of the simpler existence and uniqueness theorems. The heart of the book develops the ideas of stability and qualitative behavior. 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 equations. The author, a distinguished mathematician and formulator of the Hurewicz theorem, presents a clear and lucid treatment that emphasizes geometric methods. Subsequent chapters address systems of differential equations, linear systems of differential equations, singularities of an autonomous system, and solutions of an autonomous system in the large. Topics include first-order scalar and vector equations, basic properties of linear vector equations, and two-dimensional nonlinear autonomous systems. Throughout the book, every term is clearly defined and every theorem lucidly and thoroughly analyzed, and there is an admirable balance between the theory of differential equations and their application. This process is experimental and the keywords may be updated as the learning algorithm improves. The last two chapters address the existence and uniqueness of solutions to both first order equations and to systems and n-th order equations. Only a basic grounding in linear algebra and analysis is assumed. He has also included problems (with answers) selected to sharpen understanding of the mathematical structure of the subject, and to introduce a variety of relevant topics not covered in the text, e.g. stability, equations with periodic coefficients, and boundary value problems.Reprint of the Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 1989 edition.AvailabilityUsually ships in 24 to 48 hoursISBN 100486659428ISBN 139780486659428Author/EditorEarl A. The next four chapters take up linear equations, those of the first order and those with constant coefficients, variable coefficients, and regular singular points.

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