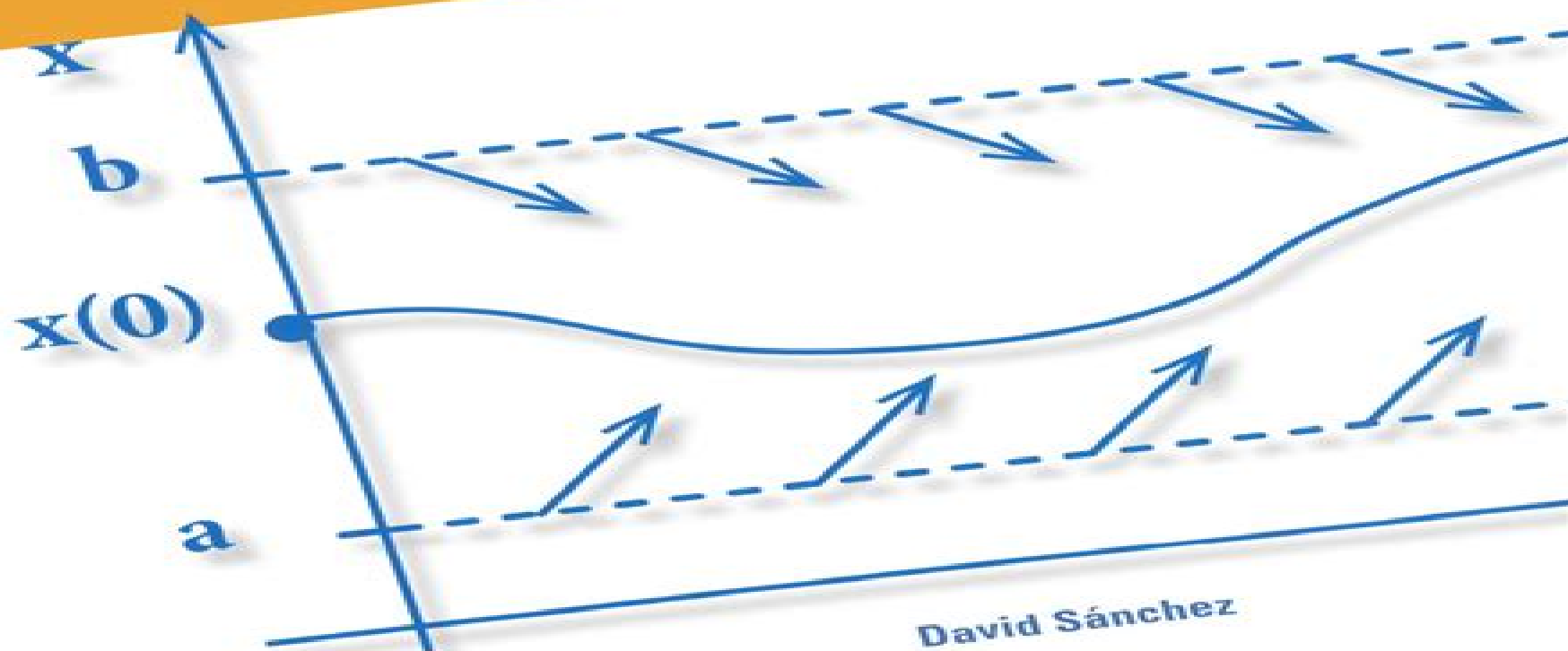


# Ordinary Differential Equations

A Brief Eclectic Tour



David Sánchez



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# Ordinary Differential Equations A Brief Eclectic Tour

**Michael Henle**



## **Ordinary Differential Equations A Brief Eclectic Tour:**

**Ordinary Differential Equations** David A. Sanchez, 2002-12-31 For the instructor or student confronting an introductory course in ordinary differential equations there is a need for a brief guide to the key concepts in the subject. Important topics like stability, resonance, existence of periodic solutions, and the essential role of continuation of solutions are often engulfed in a sea of exercises in integration, linear algebra, theory, computer programming, and an overdose of series expansions. This book is intended as that guide. It is more conceptual than definitive and more light hearted than pedagogic. It covers key topics and theoretical underpinnings that are necessary for the study of rich topics like nonlinear equations or stability theory. The Author has included a great many illuminating examples and discussions that uncover the conceptual heart of the matter.

**Ordinary Differential Equations with Applications** Carmen Chicone, 2024-05-19 This book developed during 20 years of the author teaching differential equations courses at his home university is designed to serve as a text for a graduate level course focused on the central theory of the subject with attention paid to applications and connections to other advanced topics in mathematics. Core theory includes local existence and uniqueness, the phase plane, Poincaré-Bendixson theory, Lyapunov and linearized stability, linear systems, Floquet theory, the Grobman-Hartman theorem, persistence of rest points and periodic orbits, the stable and center manifold theorems, and bifurcation theory. This edition includes expanded treatment of deterministic chaos, perturbation theory for periodic solutions, boundary value problems, optimization, and a wide range of their applications. In addition, it contains a formulation and new proof of a theorem on instability of rest points in the presence of an eigenvalue with positive real part and new proofs of differential inequalities and Lyapunov's center theorem. New sections present discussions of global bifurcation, the Crandall-Rabinowitz theorem, and Alekseev's formula. Of particular note is a new chapter on basic control theory, a discussion of optimal control, and a proof of a useful special case of the maximum principle. A key feature of earlier editions, a wide selection of original exercises, is respected in this edition with the inclusion of a wealth of new exercises.

Reviews of the first edition: As an applied mathematics text on linear and nonlinear equations, the book by Chicone is written with stimulating enthusiasm. It will certainly appeal to many students and researchers. F. Verhulst, SIAM Review. The author writes lucidly and in an engaging conversational style. His book is wide ranging in its subject matter, thorough in its presentation, and written at a generally high level of generality, detail, and rigor. D. S. Shafer, Mathematical Reviews.

**Differential Geometry and Its Applications** John Oprea, 2024-07-01 Differential Geometry and Its Applications studies the differential geometry of surfaces with the goal of helping students make the transition from the compartmentalized courses in a standard university curriculum to a type of mathematics that is a unified whole. It mixes geometry, calculus, linear algebra, differential equations, complex variables, the calculus of variations, and notions from the sciences. That mix of ideas offers students the opportunity to visualize concepts through the use of computer algebra systems such as Maple. Differential Geometry and Its Applications emphasizes that this

visualization goes hand in hand with understanding the mathematics behind the computer construction The book is rich in results and exercises that form a continuous spectrum from those that depend on calculation to proofs that are quite abstract

**Paradoxes and Sophisms in Calculus** Sergiy Klymchuk,Susan Staples,2013-12-31 Paradoxes and Sophisms in Calculus offers a delightful supplementary resource to enhance the study of single variable calculus By the word paradox the Author s mean a surprising unexpected counter intuitive statement that looks invalid but in fact is true The word sophism describes intentionally invalid reasoning that looks formally correct but in fact contains a subtle mistake or flaw In other words a sophism is a false proof of an incorrect statement A collection of over fifty paradoxes and sophisms showcases the subtleties of this subject and leads students to contemplate the underlying concepts A number of the examples treat historically significant issues that arose in the development of calculus while others more naturally challenge readers to understand common misconceptions Sophisms and paradoxes from the areas of functions limits derivatives integrals sequences and series are explored

**The Heart of Calculus** Philip M. Anselone,John W. Lee,2015-12-31 This book contains enrichment material for courses in first and second year calculus differential equations modeling and introductory real analysis It targets talented students who seek a deeper understanding of calculus and its applications The book can be used in honors courses undergraduate seminars independent study capstone courses taking a fresh look at calculus and summer enrichment programs The book develops topics from novel and or unifying perspectives Hence it is also a valuable resource for graduate teaching assistants developing their academic and pedagogical skills and for seasoned veterans who appreciate fresh perspectives The explorations problems and projects in the book impart a deeper understanding of and facility with the mathematical reasoning that lies at the heart of calculus and conveys something of its beauty and depth A high level of rigor is maintained However with few exceptions proofs depend only on tools from calculus and earlier Analytical arguments are carefully structured to avoid epsilons and deltas Geometric and or physical reasoning motivates challenging analytical discussions Consequently the presentation is friendly and accessible to students at various levels of mathematical maturity Logical reasoning skills at the level of proof in Euclidean geometry suffice for a productive use of the book

*Elementary Mathematical Models* Dan Kalman,2023-03-09 The language of mathematics has proven over centuries of application to be an indispensable tool for the expression and analysis of real problems With numerical graphical and theoretical methods this book examines the relevance of mathematical models to phenomena ranging from population growth and economics to medicine and the physical sciences In a book written for the intelligent and literate non mathematician Kalman aims at an understanding of the power and utility of quantitative methods rather than at technical mastery of mathematical operations He shows first that mathematical models can serve a critical function in understanding the world and he concludes with a discussion of the problems encountered by traditional algebraic assumptions in chaos theory Though models can often approximate future events based on existing data and quantitative relationships Kalman shows that the appearance of

regularity and order can often be misleading By beginning with quantitative models and ending with an introduction to chaos Kalman offers a broad treatment of both the power and limitations of quantitatively based predictions     *Geometry from Africa* Paulus Gerdes,1999-12-31 This book draws on geometric ideas from cultural activities from Sub Saharan Africa and demonstrates how they may be explored to develop mathematical reasoning from school level through to university standard Paulus Gerdes provides a thoroughly illustrated and researched exploration of mathematical ideas motifs and patterns Many important mathematical points are brought to the fore not via the formal theorem proof method but in a more schematic and diagrammatic manner African artifacts oral traditions sand drawing and other forms of artwork with a geometric basis all provide mathematical ideas for discussion in this unique book Mathematicians and teachers of mathematics at all levels will be fascinated as will anybody with an interest in African cultures     *Counterexamples in Calculus* Sergiy Klymchuk,2010-12-31 Counterexamples in Calculus serves as a supplementary resource to enhance the learning experience in single variable calculus courses This book features carefully constructed incorrect mathematical statements that require students to create counterexamples to disprove them Methods of producing these incorrect statements vary At times the converse of a well known theorem is presented In other instances crucial conditions are omitted or altered or incorrect definitions are employed Incorrect statements are grouped topically with sections devoted to Functions Limits Continuity Differential Calculus and Integral Calculus This book aims to fill a gap in the literature and provide a resource for using counterexamples as a pedagogical tool in the study of introductory calculus     **101 Careers in Mathematics** Andrew Sterrett,2014-12-31 This third edition of the immensely popular 101 Careers in Mathematics contains updates on the career paths of individuals profiled in the first and second editions along with many new profiles No career counselor should be without this valuable resource The Author s of the essays in this volume describe a wide variety of careers for which a background in the mathematical sciences is useful Each of the jobs presented shows real people in real jobs Their individual histories demonstrate how the study of mathematics was useful in landing well paying jobs in predictable places such as IBM AT s profiled here range from bachelor s to master s to PhD in approximately equal numbers Most of the writers use the mathematical sciences on a daily basis in their work Others rely on the general problem solving skills acquired in mathematics as they deal with complex issues     Which Numbers Are Real? Michael Henle,2012-12-31 Everyone knows the real numbers those fundamental quantities that make possible all of mathematics from high school algebra and Euclidean geometry through the Calculus and beyond and also serve as the basis for measurement in science industry and ordinary life This book surveys alternative real number systems systems that generalize and extend the real numbers yet stay close to these properties that make the reals central to mathematics Alternative real numbers include many different kinds of numbers for example multidimensional numbers the complex numbers the quaternions and others infinitely small and infinitely large numbers the hyperreal numbers and the surreal numbers and numbers that represent positions in games the

surreal numbers Each system has a well developed theory including applications to other areas of mathematics and science such as physics the theory of games multi dimensional geometry and formal logic They are all active areas of current mathematical research and each has unique features in particular characteristic methods of proof and implications for the philosophy of mathematics both highlighted in this book Alternative real number systems illuminate the central unifying role of the real numbers and include some exciting and eccentric parts of mathematics Which Numbers Are Real Will be of interest to anyone with an interest in numbers but specifically to upper level undergraduates graduate students and professional mathematicians particularly college mathematics teachers      **Math Made Visual** Claudi Alsina,Roger B.

Nelsen,2006-07-06 A book describing how visualization techniques can be used in understanding and teaching mathematics

**Oval Track and Other Permutation Puzzles** John O. Kiltinen,2003-10-23 Book and CD explaining how to apply group theory to solve a range of popular puzzles      *Proofs Without Words III* Roger B. Nelsen,2015-12-31 Proofs without words PWWs are figures or diagrams that help the reader see why a particular mathematical statement is true and how one might begin to formally prove it true PWWs are not new many date back to classical Greece ancient China and medieval Europe and the Middle East PWWs have been regular features of the MAA journals Mathematics Magazine and The College Mathematics Journal for many years and the MAA published the collections of PWWs Proofs Without Words Exercises in Visual Thinking in 1993 and Proofs Without Words II More Exercises in Visual Thinking in 2000 This book is the third such collection of PWWs

*Essentials of Mathematics* Margie Hale,2003-12-24 Essentials of Mathematics is designed as both a textbook and outside reading for college students who want to prepare themselves for mathematics courses beyond the first year level and take courses in which proofs play a major role There are also narratives on the nature of mathematics and the mathematics profession      Arithmetical Wonderland Andy Liu,2015-12-31 Arithmetical Wonderland is intended as an unorthodox

mathematics textbook for students in elementary education in a contents course offered by a mathematics department The scope is deliberately restricted to cover only arithmetic even though geometric elements are introduced whenever warranted For example what the Euclidean Algorithm for finding the greatest common divisors of two numbers has to do with Euclid is showcased Many students find mathematics somewhat daunting It is the Author s belief that much of that is caused not by the subject itself but by the language of mathematics In this book much of the discussion is in dialogues between Alice of Wonderland fame and the twins Tweedledum and Tweedledee who hailed from Through the Looking Glass The boys are learning High Arithmetic or Elementary Number Theory from Alice and the reader is carried along in this academic exploration Thus many formal proofs are converted to soothing everyday language Nevertheless the book has considerable depth It examines many arcane corners of the subject and raises rather unorthodox questions For instance Alice tells the twins that six divided by three is two only because of an implicit assumption that division is supposed to be fair whereas fairness does not come into addition subtraction or multiplication Some topics often not covered are introduced rather early

such as the concepts of divisibility and congruence      Game Theory through Examples Erich Prisner, 2014-12-31 *Game Theory through Examples* is a thorough introduction to elementary game theory covering finite games with complete information. The core philosophy underlying this volume is that abstract concepts are best learned when encountered first and repeatedly in concrete settings. Thus the essential ideas of game theory are here presented in the context of actual games, real games much more complex and rich than the typical toy examples. All the fundamental ideas are here: Nash equilibria, backward induction, elementary probability, imperfect information, extensive and normal form, mixed and behavioral strategies. The active learning, example-driven approach makes the text suitable for a course taught through problem solving. Students will be thoroughly engaged by the extensive classroom exercises, compelling homework problems, and nearly sixty projects in the text. Also available are approximately eighty Java applets and three dozen Excel spreadsheets in which students can play games and organize information in order to acquire a gut feeling to help in the analysis of the games. Mathematical exploration is a deep form of play that maxim is embodied in this book. *Game Theory through Examples* is a lively introduction to this appealing theory. Assuming only high school prerequisites makes the volume especially suitable for a liberal arts or general education spirit of mathematics course. It could also serve as the active learning supplement to a more abstract text in an upper division game theory course.

**Creative Mathematics** H. S. Wall, 2006-12-31 Professor H. S. Wall, 1902-1971, developed *Creative Mathematics* over a period of many years of working with students at the University of Texas at Austin. His aim was to lead students to develop their mathematical abilities to help them learn the art of mathematics and to teach them to create mathematical ideas. This book, according to Wall, is not a compendium of mathematical facts and inventions to be read over as a connoisseur of art looks over paintings. It is instead a sketchbook in which readers try their hands at mathematical discovery. In less than two hundred pages, he takes the reader on a stimulating tour starting with numbers and then moving on to simple graphs, the integral, simple surfaces, successive approximations, linear spaces of simple graphs, and concluding with mechanical systems. The book is self-contained and assumes little formal mathematical background on the part of the reader.

*The Calculus Collection* Caren L. Diefenderfer, Roger B. Nelsen, 2010-12-31 *The Calculus Collection* is a useful resource for everyone who teaches calculus in high school or in a 2 or 4 year college or university. It consists of 123 articles selected by a panel of six veteran high school teachers, each of which was originally published in *Math Horizons*, *MAA Focus*, *The American Mathematical Monthly*, *The College Mathematics Journal*, or *Mathematics Magazine*. The articles focus on engaging students who are meeting the core ideas of calculus for the first time. *The Calculus Collection* is filled with insights, alternate explanations of difficult ideas, and suggestions for how to take a standard problem and open it up to the rich mathematical explorations available when you encourage students to dig a little deeper. Some of the articles reflect an enthusiasm for bringing calculators and computers into the classroom, while others consciously address themes from the calculus reform movement. But most of the articles are simply interesting and timeless.

explorations of the mathematics encountered in a first course in calculus      **Explorations in Complex Analysis** Michael A. Brilleslyper, Michael J. Dorff, Jane M. McDougall, James S. Rolf, Lisbeth E. Schaubroeck, 2012-12-31 Research topics in the book include complex dynamics minimal surfaces fluid flows harmonic conformal and polygonal mappings and discrete complex analysis via circle packing The nature of this book is different from many mathematics texts the focus is on student driven and technology enhanced investigation Interlaced in the reading for each chapter are examples exercises explorations and projects nearly all linked explicitly with computer applets for visualization and hands on manipulation      **She Does Math!** Marla Parker, 1995-12-31 She Does Math presents the career histories of 38 professional women and math problems written by them Each history describes how much math the Author took in high school and college how she chose her field of study and how she ended up in her current job Each of the women present several problems typical of those she had to solve on the job using mathematics There are many good reasons to buy this book It contains real life problems Any student who asks the question Why do I have to learn algebra or trigonometry or geometry will find many answers in its pages Students will welcome seeing solutions from real world jobs where the math skills they are learning in class are actually used The book provides strong female role models and supplies practical information about the job market Students learn that they can only compete for these interesting well paying jobs by taking mathematics throughout their high school and college years The book demonstrates the surprising variety of fields in which mathematics is used Who should have this book Your daughter or granddaughter your sister your former math teacher your students and young men too They want to know how the math they study is applied and this book will show them



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