

Paul Cull Mary Flahive Robby Robson

DIFFERENCE EQUATIONS

From Rabbits to Chaos



Difference Equations From Rabbits To Chaos Undergraduate Texts In Mathematics

John Stillwell



Difference Equations From Rabbits To Chaos Undergraduate Texts In Mathematics:

Difference Equations Paul Cull, Mary Flahive, Robert O. Robson, 2005-04-12 Difference equations are models of the world around us From clocks to computers to chromosomes processing discrete objects in discrete steps is a common theme Difference equations arise naturally from such discrete descriptions and allow us to pose and answer such questions as How much How many How long Difference equations are a necessary part of the mathematical repertoire of all modern scientists and engineers In this new text designed for sophomores studying mathematics and computer science the authors cover the basics of difference equations and some of their applications in computing and in population biology Each chapter leads to techniques that can be applied by hand to small examples or programmed for larger problems Along the way the reader will use linear algebra and graph theory develop formal power series solve combinatorial problems visit Perron Frobenius theory discuss pseudorandom number generation and integer factorization and apply the Fast Fourier Transform to multiply polynomials quickly The book contains many worked examples and over 250 exercises While these exercises are accessible to students and have been class tested they also suggest further problems and possible research topics Paul Cull is a professor of Computer Science at Oregon State University Mary Flahive is a professor of Mathematics at Oregon State University Robby Robson is president of Eduworks an e learning consulting firm None has a rabbit

Difference Equations Paul Cull, Mary Flahive, Robby Robson, 2008-07-01 In this new text designed for sophomores studying mathematics and computer science the authors cover the basics of difference equations and some of their applications in computing and in population biology Each chapter leads to techniques that can be applied by hand to small examples or programmed for larger problems Along the way the reader will use linear algebra and graph theory develop formal power series solve combinatorial problems visit Perron Frobenius theory discuss pseudorandom number generation and integer factorization and apply the Fast Fourier Transform to multiply polynomials quickly The book contains many worked examples and over 250 exercises While these exercises are accessible to students and have been class tested they also suggest further problems and possible research topics

Difference Equations, Discrete Dynamical Systems and Applications Saber Elaydi, Christian Pötzsche, Adina Luminița Sasu, 2019-06-29 The book presents the proceedings of the 23rd International Conference on Difference Equations and Applications ICDEA 2017 held at the West University of Timi oara Romania under the auspices of the International Society of Difference Equations ISDE July 24 28 2017 It includes new and significant contributions in the field of difference equations discrete dynamical systems and their applications in various sciences Disseminating recent studies and related results and promoting advances the book appeals to PhD students researchers educators and practitioners in the field

Difference Equations, Discrete Dynamical Systems and Applications Lluís Alsedà i Soler, Jim M. Cushing, Saber Elaydi, Alberto A. Pinto, 2016-10-22 These proceedings of the 18th International Conference on Difference Equations and Applications cover a number of different aspects of difference equations and discrete dynamical systems as well as the

interplay between difference equations and dynamical systems The conference was organized by the Department of Mathematics at the Universitat Aut noma de Barcelona UAB under the auspices of the International Society of Difference Equations ISDE and held in Barcelona Catalonia Spain in July 2012 Its purpose was to bring together experts and novices in these fields to discuss the latest developments The book gathers contributions in the field of combinatorial and topological dynamics complex dynamics applications of difference equations to biology chaotic linear dynamics economic dynamics and control and asymptotic behavior and periodicity of difference equations As such it is of interest to researchers and scientists engaged in the theory and applications of difference equations and discrete dynamical systems **Geometric Theory of**

Discrete Nonautonomous Dynamical Systems Christian Pötzsche,2010-08-24 Nonautonomous dynamical systems provide a mathematical framework for temporally changing phenomena where the law of evolution varies in time due to seasonal modulation controlling or even random effects Our goal is to provide an approach to the corresponding geometric theory of nonautonomous discrete dynamical systems in infinite dimensional spaces by virtue of 2 parameter semigroups processes These dynamical systems are generated by implicit difference equations which explicitly depend on time Compactness and dissipativity conditions are provided for such problems in order to have attractors using the natural concept of pullback convergence Concerning a necessary linear theory our hyperbolicity concept is based on exponential dichotomies and splittings This concept is in turn used to construct nonautonomous invariant manifolds so called fiber bundles and deduce linearization theorems The results are illustrated using temporal and full discretizations of evolutionary differential equations

An Introduction to Benford's Law Arno Berger,Theodore P. Hill,2015-05-26 This book provides the first comprehensive treatment of Benford s law the surprising logarithmic distribution of significant digits discovered in the late nineteenth century Establishing the mathematical and statistical principles that underpin this intriguing phenomenon the text combines up to date theoretical results with overviews of the law s colorful history rapidly growing body of empirical evidence and wide range of applications An Introduction to Benford s Law begins with basic facts about significant digits Benford functions sequences and random variables including tools from the theory of uniform distribution After introducing the scale base and sum invariance characterizations of the law the book develops the significant digit properties of both deterministic and stochastic processes such as iterations of functions powers of matrices differential equations and products powers and mixtures of random variables Two concluding chapters survey the finitely additive theory and the flourishing applications of Benford s law Carefully selected diagrams tables and close to 150 examples illuminate the main concepts throughout The text includes many open problems in addition to dozens of new basic theorems and all the main references A distinguishing feature is the emphasis on the surprising ubiquity and robustness of the significant digit law This text can serve as both a primary reference and a basis for seminars and courses **Analysis by Its History** Ernst Hairer,Gerhard

Wanner,2008-06-02 This book presents first year calculus roughly in the order in which it was first discovered The first two

chapters show how the ancient calculations of practical problems led to infinite series differential and integral calculus and to differential equations The establishment of mathematical rigour for these subjects in the 19th century for one and several variables is treated in chapters III and IV Many quotations are included to give the flavor of the history The text is complemented by a large number of examples calculations and mathematical pictures and will provide stimulating and enjoyable reading for students teachers as well as researchers

The Four Pillars of Geometry John Stillwell,2005-08-09

This book is unique in that it looks at geometry from 4 different viewpoints Euclid style axioms linear algebra projective geometry and groups and their invariants Approach makes the subject accessible to readers of all mathematical tastes from the visual to the algebraic Abundantly supplemented with figures and exercises

Mathematical Reviews ,2006

Notes on Set Theory Yiannis Moschovakis,2006-06-15 The axiomatic theory of sets is a vibrant part of pure mathematics with its own basic notions fundamental results and deep open problems At the same time it is often viewed as a foundation of mathematics so that in the most prevalent current mathematical practice to make a notion precise simply means to define it in set theory This book tries to do justice to both aspects it gives a solid introduction to pure set theory through transfinite recursion and the construction of the cumulative hierarchy of sets and also attempts to explain how mathematical objects can be faithfully modeled within the universe of sets In this new edition the author has added solutions to the exercises and rearranged and reworked the text to improve the presentation The book is geared to advanced undergraduate or beginning graduate mathematics students and mathematically minded graduate students in computer science and philosophy

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