Exact

Andrei D. Polyanin,Alexei I. Zhurov

Exact Philosophy M. Bunge,2012-12-06 The papers that follow were read and discussed at the first Symposium on Exact Philosophy. This conference was held at Montreal on November 4th and 5th, 1971, to celebrate the sesquicentennial of McGill University and establish the Society for Exact Philosophy. The expression 'exact philosophy' is taken to signify mathematical phi losophy, i.e., philosophy done with the explicit help of mathematical logic and mathematics. So far the expression denotes an attitude rather than a fully blown discipline: it intends to convey the intention to try and pro ceed in as exact a manner as we can in formulating and discussing phi losophical problems and theories. The kind of philosophy we wish to practice and promote is disciplined rather than wild, systematic rather than disconnected, and capable of being argued over rather than oracular. We believe that even metaphysics, notoriously riotous, can be subjected to the control of logic and mathematics. Even the history of philosophy, notoriously unsystematic, can benefit from an exact reconstruction of some classical ideas.

Separation of Variables and Exact Solutions to Nonlinear PDEs Andrei D. Polyanin,Alexei I. Zhurov,2021-09-20 Separation of Variables and Exact Solutions to Nonlinear PDEs is devoted to describing and applying methods of generalized and functional separation of variables used to find exact solutions of nonlinear partial differential equations (PDEs). It also presents the direct method of symmetry reductions and its more general version. In addition, the authors describe the differential constraint method, which generalizes many other exact methods. The presentation involves numerous examples of utilizing the methods to find exact solutions to specific nonlinear equations of mathematical physics. The equations of heat and mass transfer, wave theory, hydrodynamics, nonlinear optics, combustion theory, chemical technology, biology, and other disciplines are studied. Particular attention is paid to nonlinear equations of a

reasonably general form that depend on one or several arbitrary functions. Such equations are the most difficult to analyze. Their exact solutions are of significant practical interest, as they are suitable to assess the accuracy of various approximate analytical and numerical methods. The book contains new material previously unpublished in monographs. It is intended for a broad audience of scientists, engineers, instructors, and students specializing in applied and computational mathematics, theoretical physics, mechanics, control theory, chemical engineering science, and other disciplines. Individual sections of the book and examples are suitable for lecture courses on partial differential equations, equations of mathematical physics, and methods of mathematical physics, for delivering special courses and for practical training.

Exact Finite-Difference Schemes Sergey Lemeshevsky,Piotr Matus,Dmitriy Poliakov,2016-09-26 Exact Finite-Difference Schemes is a first overview of the topic also describing the state-of-the-art in this field of numerical analysis. Construction of exact difference schemes for various parabolic and elliptic partial differential equations are discussed, including vibrations and transport problems. After this, applications are discussed, such as the discretisation of ODEs and PDEs and numerical methods for stochastic differential equations. Contents: Basic notation Preliminary results Hyperbolic equations Parabolic equations Use of exact difference schemes to construct NSFD discretizations of differential equations Exact and truncated difference schemes for boundary-value problem Exact difference schemes for stochastic differential equations Numerical blow-up time Bibliography

Exact Confidence Bounds when Sampling from Small Finite Universes Tommy Wright,2012-12-06 There is a very simple and fundamental concept· to much of probability and statistics that can be conveyed using the following problem. PROBLEM. Assume a finite set (universe) of N units where A of the units have a

particular attribute. The value of N is known while the value of A is unknown. If a proper subset (sample) of size n is selected randomly and a of the units in the subset are observed to have the particular attribute, what can be said about the unknown value of A? The problem is not new and almost anyone can describe several situations where a particular problem could be presented in this setting. Some recent references with different focuses include Cochran (1977); Williams (1978); Hajek (1981); Stuart (1984); Cassel, Samdal, and Wretman (1977); and Johnson and Kotz (1977). We focus on confidence interval estimation of A. Several methods for exact confidence interval estimation of A exist (Buonaccorsi, 1987, and Peskun, 1990), and this volume presents the theory and an extensive Table for one of them. One of the important contributions in Neyman (1934) is a discussion of the meaning of confidence interval estimation and its relationship with hypothesis testing which we will call the Neyman Approach. In Chapter 3 and following Neyman's Approach for simple random sampling (without replacement), we present an elementary development of exact confidence interval estimation of A as a response to the specific problem cited above.

Exact Design of Digital Microfluidic Biochips Oliver Keszocze,Robert Wille,Rolf Drechsler,2018-06-11 This book presents exact, that is minimal, solutions to individual steps in the design process for Digital Microfluidic Biochips (DMFBs), as well as a one-pass approach that combines all these steps in a single process. All of the approaches discussed are based on a formal model that can easily be extended to cope with further design problems. In addition to the exact methods, heuristic approaches are provided and the complexity classes of various design problems are determined. Presents exact methods to tackle a variety of design problems for Digital Microfluidic Biochips (DMFBs); Describes an holistic, one-pass approach solving different design steps all at once; Based on a formal model of DMFBs that is easily adaptable to deal with further design tasks.

Methods for Constructing Exact Solutions of Partial Differential Equations Sergey V. Meleshko,2005-09-16 Differential equations, especially nonlinear, present the most effective way for describing complex physical processes. Methods for constructing exact solutions of differential equations play an important role in applied mathematics and mechanics. This book aims to provide scientists, engineers and students with an easy-to-follow, but comprehensive, description of the methods for constructing exact solutions of differential equations.

Exact Methods in Low-dimensional Statistical Physics and Quantum Computing Stephane Ouvry,Vincent Pasquier,Didina Serban,Leticia Cugliandolo,2010-04-22 Low-dimensional statistical models are instrumental in improving our understanding of emerging fields, such as quantum computing and cryptography, complex systems, and quantum fluids. This book of lectures by international leaders in the field sets these issues into a larger and more coherent theoretical perspective than is currently available.

Exact Solutions and Invariant Subspaces of Nonlinear Partial Differential Equations in Mechanics and Physics Victor A. Galaktionov,Sergey R. Svirshchevskii,2006-11-02 Exact Solutions and Invariant Subspaces of Nonlinear Partial Differential Equations in Mechanics and Physics is the first book to provide a systematic construction of exact solutions via linear invariant subspaces for nonlinear differential operators. Acting as a guide to nonlinear evolution equations and models from physics and mechanics, the book focuses on the existence of new exact solutions on linear invariant subspaces for nonlinear operators and their crucial new properties. This practical reference deals with various partial differential equations (PDEs) and models that exhibit some common nonlinear invariant features. It begins with classical as well as more recent examples of solutions on invariant subspaces. In the remainder of the book, the authors develop several techniques for constructing exact solutions of various

nonlinear PDEs, including reaction-diffusion and gas dynamics models, thin-film and Kuramoto-Sivashinsky equations, nonlinear dispersion (compacton) equations, KdV-type and Harry Dym models, quasilinear magma equations, and Green-Naghdi equations. Using exact solutions, they describe the evolution properties of blow-up or extinction phenomena, finite interface propagation, and the oscillatory, changing sign behavior of weak solutions near interfaces for nonlinear PDEs of various types and orders. The techniques surveyed in Exact Solutions and Invariant Subspaces of Nonlinear Partial Differential Equations in Mechanics and Physics serve as a preliminary introduction to the general theory of nonlinear evolution PDEs of different orders and types.

The Use of Sample Ranges and Quasi-ranges in Setting Exact Confidence Bounds for the Population Standard Deviation Harman Leon Harter,1961

Exact Solutions in Three-Dimensional Gravity Alberto A. García-Díaz,2017-09-07 A self-contained and unique text systematically presenting the determination and classification of exact solutions in three-dimensional Einstein gravity. Including contributions by David Chow, Christopher N. Pope and Ergin Sezgin (chapters 16-19).

Parameterized and Exact Computation Jianer Chen,Fedor V. Fomin,2009-12-01 This book constitutes the refereed best selected papers of the 4th International Workshop on Parameterized and Exact Computation, IWPEC 2009, held in Copenhagen, Denmark, in September 2009. The 25 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 52 submissions. The topics addressed cover research in all aspects of parameterized and exact computation and complexity, including but not limited to new techniques for the design and analysis of parameterized and exact algorithms, parameterized complexity theory, relationship between parameterized complexity and traditional complexity

classifications, applications of parameterized and exact computation, implementation issues of parameterized and exact algorithms, high-performance computing and fixed-parameter tractability.

Parameterized and Exact Computation Frank Dehne,Rod Downey,Michael Fellows,2004-10-14 Thecentralchallengeoftheoreticalcomputerscienceistodeploymathematicsin waysthatservethecreationofusefulalgorithms. Inrecentyearstherehasbeena growinginterest in the two-dimensionalframework of parameterizedcomplexity, where, in addition to the overall input size, one also considers a parameter,with a focus on how these two dimensions interact in problem complexity. This book presents the proceedings of the 1st InternationalWorkshopon - rameterized and Exact Computation (IWPEC 2004,http://www. iwpec. org), which took place in Bergen, Norway, on September 14-16, 2004. The workshop was organized as part of ALGO 2004. There were seven previous workshops on the theory and applications of parameterized complexity. The ?rst was - ganized at the Institute for the Mathematical Sciences in Chennai, India, in September, 2000. The second was held at Dagstuhl Castle, Germany, in July, 2001. In December, 2002, a workshop on parameterized complexity was held in conjunction with the FST-TCS meeting in Kanpur, India. A second Dagstuhl workshop on parameterized complexity was held in July, 2003. Another wo-shoponthesubjectwasheldinOttawa,Canada,inAugust,2003,inconjunction with the WADS 2003 meeting. There have also been two Barbados workshops on applications of parameterized complexity. In response to the IWPEC 2004 call for papers, 47 papers were submitted, and from these the programcommittee selected 25 for presentation at the wo- shop. Inaddition,invitedlectureswereacceptedbythedistinguishedresearchers Michael Langston and Gerhard Woeginger.

Bibliography of the Exact Sciences in the Low Countries from

ca. 1470 to the Golden Age (1700) K. Hoogendoorn,2018-04-10 The Bibliography of the Exact Sciences in the Low Countries presents the most complete census of printed calendars, almanacs and prognostications by authors of the Low Countries from ca. 1470 to the Golden Age (1700).

An Exact Abridgment of All Statutes in Force and Use from the Beginning of Magna Charta Untill 1641 Edmund Wingate,1684

A True and Exact Description of the Most Celebrated East-India Coasts of Malabar and Coromandel and Also of the Isle of Ceylon Philippus Baldaeus,1996 Translated From The High-Dutch Printed At Amsterdam, 1672. With All The Adjacent Kingdoms, Principalities, Provinces, Cities, Chief Harbors, Structures, Pagan Temples Products And Living Creatures. The Manners, Habits, Economies And Ceremonies Of The Inhabitants, As Like Wise The Most Remarkable War Like Exploits, Sieges, Sea And Field-Engagements Between The Portuguese And Dutch, With Their Traffic And Commerce. The Whole Adorned With New Maps And Draughts Of The Chief Cities, Forts, Habits, Living Creatures, Fruits Etc; Of The Products Of The Indies, Drawn To The Life, And Cut In Copper Plates, Also A Most Circumstantial And Complete Account Of The Idolatry Of The Pagans In The East-Indies, The Malabars, Benjans, Gentives, Brahmans & Etc. Taken Partly From Their Own Vedam Or Law-Book And Authentic Manuscripts; Partly From Frequent Conversation With Their Priests And Divines; With The Draughts Of Their Idols, Done After Their Originals.

Culpeper's Last Legacy ... The fifth impression; whereunto is added an Exact and perfect treatise of anatomy of the reins and bladder, brain and nerves of all parts of the body, never published before this year 1677 Nicholas Culpeper,1676

Finite Size Effects In Correlated Electron Models: Exact Results Andrei Zvyagin,2005-05-25 The book presents exact

results for one-dimensional models (including quantum spin models) of strongly correlated electrons in a comprehensive and concise manner. It incorporates important results related to magnetic and hybridization impurities in electron hosts and contains exact original results for disordered ensembles of impurities in interacting systems. These models describe a number of real low-dimensional electron systems that are widely used in nanophysics and microelectronics.An important method of modern theoretical and mathematical physics — the Bethe's Ansatz (BA) — is introduced to readers. This book presents different forms of the BA for periodic and open quantum chains. Other forms dealt with are the co-ordinate BA, thermodynamic BA, nested BA, algebraic BA, and thermal BA. The book also contains a compact description of other theoretical methods such as scaling, conformal field theory, Abelian and non-Abelian bosonizations.The book is suitable for use as a textbook by graduate students in non-perturbative methods of low-dimensional quantum many-body theory. It will also be a useful source of reference for qualified physicists, as well as non-experts in low-dimensional physics, as it explores material necessary for further studies in the fields of exactly solvable quantum models and low-dimensional correlated electron systems.

An exact account of the form and ceremony of his Majesty's coronation ... Second edition George I (King of Great Britain),1714

A True and Exact Particular and Inventory of All and Singular the Estate and Effects Whatsoever, of Thomas Warren, ... Thomas Warren,1732

The Entring Clerk's Vade Mecum. Being an Exact Collection of Precedents for Declarations and Pleadings in Most Actions, Etc William BROWN (Clerk of the Common Pleas.),1678

The Enigmatic Realm of **Exact**: Unleashing the Language is Inner Magic

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6, 1946 in Kansas City, Missouri) is an American author and astrologer. Arroyo has written seven books on psychologically ... Astrology/Karma & Transformation 2nd Ed (Paperback) Nov 1, 1992 — This insightful and original book focuses on the understanding and use of astrology as a tool for spiritual and psychological growth. In ... Astrology, Karma & Transformation: The Inner Dimensions ... Arroyo has written seven books on psychologically oriented astrology which outline his theory that the individual's experience of the Solar System's impacts on ... My way – Frank Sinatra for String Trio Jun 15, 2021 — Download and print in PDF or MIDI free sheet music for My Way by Frank Sinatra arranged by ArViM for Violin, Viola, Cello (String Trio) MY WAY - Quartet - Parts+score | PDF MY WAY - quartet - parts+score by lucyna-17 in Taxonomy_v4 > Sheet Music. My Way (arr. Sarah Cellobat Chaffee)by

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