

MATHEMATICAL MODELLING: THEORY AND APPLICATIONS

ALGORITHMIC METHODS IN NON-COMMUTATIVE ALGEBRA

APPLICATIONS TO QUANTUM GROUPS

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Algorithmic Methods In Noncommutative Algebra Applications To Quantum Groups

**J.L. Bueso, José Gómez-Torrecillas, A.
Verschoren**



Algorithmic Methods In Noncommutative Algebra Applications To Quantum Groups:

Algorithmic Methods in Non-Commutative Algebra J.L. Bueso, José Gómez-Torrecillas, A. Verschoren, 2013-03-09 The already broad range of applications of ring theory has been enhanced in the eighties by the increasing interest in algebraic structures of considerable complexity the so called class of quantum groups One of the fundamental properties of quantum groups is that they are modelled by associative coordinate rings possessing a canonical basis which allows for the use of algorithmic structures based on Groebner bases to study them This book develops these methods in a self contained way concentrating on an in depth study of the notion of a vast class of non commutative rings encompassing most quantum groups the so called Poincar Birkhoff Witt rings We include algorithms which treat essential aspects like ideals and bi modules the calculation of homological dimension and of the Gelfand Kirillov dimension the Hilbert Samuel polynomial primality tests for prime ideals etc

Commutative Algebra and Noncommutative Algebraic Geometry David Eisenbud, Srikanth B. Iyengar, Anurag K. Singh, J. Toby Stafford, Michel Van den Bergh, 2015-11-19 This book surveys fundamental current topics in these two areas of research emphasising the lively interaction between them Volume 1 contains expository papers ideal for those entering the field

Functor Categories, Model Theory, Algebraic Analysis and Constructive Methods Alexander Martsinkovsky, 2024-05-04 This volume comprises selected contributions by the participants of the second Functor Categories Model Theory Algebraic Analysis and Constructive Methods conference which took place at the University of Almer a Spain in July 2022 The conference was devoted to several seemingly unrelated fields functor categories model theory of modules algebraic analysis including linear control systems and constructive category theory to mention just a few The fact that these fields are actually related is a very recent realization The connections between these disciplines are changing in real time and the goal of this volume is to provide an initial reference point for this emerging interdisciplinary field Besides research articles the volume includes two extended lectures one on constructive methods in algebraic analysis and the other on the functorial approach to algebraic systems theory Hence in addition to its interest for researchers the volume will also be an invaluable resource for newcomers

Commutative Algebra and its Interactions to Algebraic Geometry Nguyen Tu CUONG, Le Tuan HOA, Ngo Viet TRUNG, 2018-08-02 This book presents four lectures on recent research in commutative algebra and its applications to algebraic geometry Aimed at researchers and graduate students with an advanced background in algebra these lectures were given during the Commutative Algebra program held at the Vietnam Institute of Advanced Study in Mathematics in the winter semester 2013 2014 The first lecture is on Weyl algebras certain rings of differential operators and their D modules relating non commutative and commutative algebra to algebraic geometry and analysis in a very appealing way The second lecture concerns local systems their homological origin and applications to the classification of Artinian Gorenstein rings and the computation of their invariants The third lecture is on the representation type of projective varieties and the classification of arithmetically Cohen Macaulay

bundles and Ulrich bundles Related topics such as moduli spaces of sheaves liaison theory minimal resolutions and Hilbert schemes of points are also covered The last lecture addresses a classical problem how many equations are needed to define an algebraic variety set theoretically It systematically covers and improves recent results for the case of toric varieties

Computer Algebra in Scientific Computing Victor G. Ganzha, Victor Grigor'evich Ganzha, Ernst W. Mayr, Evgenii Vasil'evich Vorozhtsov, 2005-08-30 This book constitutes the refereed proceedings of the 8th International Workshop on Computer Algebra in Scientific Computing CASC 2005 held in Kalamata Greece in September 2005 The 41 revised full papers presented were carefully reviewed and selected from 75 submissions The topics addressed in the workshop cover all the basic areas of scientific computing as they benefit from the application of computer algebra methods and software algebraic methods for nonlinear polynomial equations and inequalities symbolic numeric methods for differential and differential algebraic equations algorithmic and complexity considerations in computer algebra algebraic methods in geometric modelling aspects of computer algebra programming languages automatic reasoning in algebra and geometry complexity of algebraic problems exact and approximate computation parallel symbolic numeric computation Internet accessible symbolic and numeric computation problem solving environments symbolic and numerical computation in systems engineering and modelling computer algebra in industry solving problems in the natural sciences numerical simulation using computer algebra systems mathematical communication Skew PBW Extensions William Fajardo, Claudia Gallego, Oswaldo Lezama, Armando Reyes, Héctor Suárez, Helbert Venegas, 2020-12-11 This monograph is devoted to a new class of non commutative rings skew Poincaré Birkhoff Witt PBW extensions Beginning with the basic definitions and ring module theoretic homological properties it goes on to investigate finitely generated projective modules over skew PBW extensions from a matrix point of view To make this theory constructive the theory of Gröbner bases of left right ideals and modules for bijective skew PBW extensions is developed For example syzygies and the Ext and Tor modules over these rings are computed Finally applications to some key topics in the noncommutative algebraic geometry of quantum algebras are given including an investigation of semi graded Koszul algebras and semi graded Artin Schelter regular algebras and the noncommutative Zariski cancellation problem The book is addressed to researchers in noncommutative algebra and algebraic geometry as well as to graduate students and advanced undergraduate students A Singular Introduction to Commutative Algebra Gert-Martin Greuel, Gerhard Pfister, 2007-11-05 This substantially enlarged second edition aims to lead a further stage in the computational revolution in commutative algebra This is the first handbook tutorial to extensively deal with SINGULAR Among the book's most distinctive features is a new completely unified treatment of the global and local theories Another feature of the book is its breadth of coverage of theoretical topics in the portions of commutative algebra closest to algebraic geometry with algorithmic treatments of almost every topic *Frontiers of Combining Systems* Uli Sattler, Martin Suda, 2023-09-14 This book constitutes the refereed proceedings of the 14th International Symposium on Frontiers of

Combining Systems FroCoS 2023 held in Prague Czech Republic in September 2023 The symposium was co located with the 32nd International Conference on Automated Reasoning with Analytic Tableaux and Related Methods TABLEUX 2023 The 14 papers presented were thoroughly reviewed and selected from the 22 high quality paper submissions They are grouped in the volume according to the following topic classification analysis of programs and equations unification decidable fragments frameworks higher order theorem proving This is an open access book **Computer Algebra in Scientific Computing**

Vladimir P. Gerdt, Wolfram Koepf, Ernst W. Mayr, Evgenii V. Vorozhtsov, 2011-08-26 This book constitutes the refereed proceedings of the 13th International Workshop on Computer Algebra in Scientific Computing CASC 2011 held in Kassel Germany in September 2011 The 26 full papers included in the book were carefully reviewed and selected from numerous submissions The articles are organized in topical sections on the development of object oriented computer algebra software for the modeling of algebraic structures as typed objects matrix algorithms the investigation with the aid of computer algebra the development of symbolic numerical algorithms and the application of symbolic computations in applied problems of physics mechanics social science and engineering **Recent Developments on Structural Equation Models**

Kees van Montfort, Johan Oud, Albert Satorra, 2004-04-30 After Karl J reskog s first presentation in 1970 Structural Equation Modelling or SEM has become a main statistical tool in many fields of science It is the standard approach of factor analytic and causal modelling in such diverse fields as sociology education psychology economics management and medical sciences In addition to an extension of its application area Structural Equation Modelling also features a continual renewal and extension of its theoretical background The sixteen contributions to this book written by experts from many countries present important new developments and interesting applications in Structural Equation Modelling The book addresses methodologists and statisticians professionally dealing with Structural Equation Modelling to enhance their knowledge of the type of models covered and the technical problems involved in their formulation In addition the book offers applied researchers new ideas about the use of Structural Equation Modeling in solving their problems Finally methodologists mathematicians and applied researchers alike are addressed who simply want to update their knowledge of recent approaches in data analysis and mathematical modelling **Foundations of Generic Optimization**

M. Iglesias, B. Naudts, A. Verschoren, C. Vidal, 2006-03-30 The success of a genetic algorithm when applied to an optimization problem depends upon several features present or absent in the problem to be solved including the quality of the encoding of data the geometric structure of the search space deception or epistasis This book deals essentially with the latter notion presenting for the first time a complete state of the art of research on this notion in a structured completely self contained and methodical way In particular it contains a refresher on the linear algebra used in the text as well as an elementary introductory chapter on genetic algorithms aimed at readers unacquainted with this notion In this way the monograph aims to serve a broad audience consisting of graduate and advanced undergraduate students in mathematics and computer science as well as researchers

working in the domains of optimization artificial intelligence theoretical computer science combinatorics and evolutionary algorithms

Evolution of Biological Systems in Random Media: Limit Theorems and Stability Anatoly Swishchuk, Jianhong Wu, 2013-04-17 This is a new book in biomathematics which includes new models of stochastic non linear biological systems and new results for these systems These results are based on the new results for non linear difference and differential equations in random media This book contains New stochastic non linear models of biological systems such as biological systems in random media epidemic genetic selection demography branching logistic growth and predator prey models New results for scalar and vector difference equations in random media with applications to the stochastic biological systems in 1 New results for stochastic non linear biological systems such as averaging merging diffusion approximation normal deviations and stability New approach to the study of stochastic biological systems in random media such as random evolution approach

Modeling with Itô Stochastic Differential Equations E. Allen, 2007-03-08 Dynamical systems with random influences occur throughout the physical biological and social sciences By carefully studying a randomly varying system over a small time interval a discrete stochastic process model can be constructed Next letting the time interval shrink to zero an Ito stochastic differential equation model for the dynamical system is obtained This modeling procedure is thoroughly explained and illustrated for randomly varying systems in population biology chemistry physics engineering and finance Introductory chapters present the fundamental concepts of random variables stochastic processes stochastic integration and stochastic differential equations These concepts are explained in a Hilbert space setting which unifies and simplifies the presentation Computer programs given throughout the text are useful in solving representative stochastic problems Analytical and computational exercises are provided in each chapter that complement the material in the text Modeling with It Stochastic Differential Equations is useful for researchers and graduate students As a textbook for a graduate course prerequisites include probability theory differential equations intermediate analysis and some knowledge of scientific programming

Algorithmic and Experimental Methods in Algebra, Geometry, and Number Theory Gebhard Böckle, Wolfram Decker, Gunter Malle, 2018-03-22 This book presents state of the art research and survey articles that highlight work done within the Priority Program SPP 1489 Algorithmic and Experimental Methods in Algebra Geometry and Number Theory which was established and generously supported by the German Research Foundation DFG from 2010 to 2016 The goal of the program was to substantially advance algorithmic and experimental methods in the aforementioned disciplines to combine the different methods where necessary and to apply them to central questions in theory and practice Of particular concern was the further development of freely available open source computer algebra systems and their interaction in order to create powerful new computational tools that transcend the boundaries of the individual disciplines involved The book covers a broad range of topics addressing the design and theoretical foundations implementation and the successful application of algebraic algorithms in order to solve mathematical research problems It offers a valuable resource

for all researchers from graduate students through established experts who are interested in the computational aspects of algebra geometry and or number theory

Grobner Bases in Ring Theory Huishi Li, 2012

1 Preliminaries 1 1 Presenting algebras by relations 1 2 S graded algebras and modules 1 3 symbol filtered algebras and modules 2 The symbol leading homogeneous algebra A symbol 2 1 Recognizing A via G symbol A part 1 2 2 Recognizing A via G symbol A part 2 2 3 The symbol graded isomorphism A symbol A 2 4 Recognizing A via A symbol 3 Grobner bases conception and construction 3 1 Monomial ordering and admissible system 3 2 Division algorithm and Grobner basis 3 3 Grobner bases and normal elements 3 4 Grobner bases w r t skew multiplicative K bases 3 5 Grobner bases in K symbol and KQ 3 6 De homogenized Grobner bases 3 7 dh closed homogeneous Grobner bases 4 Grobner basis theory meets PBW theory 4 1 symbol standard basis symbol PBW isomorphism 4 2 Realizing symbol PBW isomorphism by Grobner basis 4 3 Classical PBW K bases vs Grobner bases 4 4 Solvable polynomial algebras revisited 5 Using A symbol in terms of Grobner bases 5 1 The working strategy 5 2 Ufnarovski graph 5 3 Determination of Gelfand Kirillov Dimension 5 4 Recognizing Noetherianity 5 5 Recognizing semi primeness and PI property 5 6 Anick s resolution over monomial algebras 5 7 Recognizing finiteness of global dimension 5 8 Determination of Hilbert series 6 Recognizing non homogeneous p Koszulity via A symbol 6 1 Non homogeneous p Koszul algebras 6 2 Anick s resolution and homogeneous p Koszulity 6 3 Working in terms of Grobner bases 7 A study of Rees algebra by Grobner bases 7 1 Defining symbol by symbol 7 2 Defining symbol by symbol 7 3 Recognizing structural properties of symbol via symbol 7 4 An application to regular central extensions 7 5 Algebras defined by dh closed homogeneous Grobner bases 8 Looking for more Grobner bases 8 1 Lifting finite Grobner bases from O symbol 8 2 Lifting finite Grobner bases from a class of algebras 8 3 New examples of Grobner basis theory 8 4 Skew 2 nomial algebras 8 5 Almost skew 2 nomial algebras

Algebraic and

Algorithmic Aspects of Differential and Integral Operators Moulay Barkatou, Thomas Cluzeau, Georg Regensburger, Markus Rosenkranz, 2014-02-25 This book constitutes the proceedings of the 5th International Meeting on Algebraic and Algorithmic Aspects of Differential and Integral Operators AADIOS 2012 held at the Applications of Computer Algebra Conference in Sofia Bulgaria on June 25 28 2012 The total of 9 papers presented in this volume consists of 2 invited papers and 7 regular papers which were carefully reviewed and selected from 13 submissions The topics of interest are symbolic computation for operator algebras factorization of differential integral operators linear boundary problems and green s operators initial value problems for differential equations symbolic integration and differential galois theory symbolic operator calculi algorithmic D module theory rota baxter algebra differential algebra as well as discrete analogs and software aspects of the above

Computational Commutative and Non-commutative Algebraic Geometry Svetlana Cojocaru, Gerhard Pfister, Victor Ufnarovski, 2005

Noncommutative Polynomial Algebras of Solvable Type and Their Modules Huishi Li, 2021-11-07 Noncommutative Polynomial Algebras of Solvable Type and Their Modules is the first book to systematically introduce the basic constructive computational theory and methods developed for investigating solvable polynomial algebras

and their modules In doing so this book covers A constructive introduction to solvable polynomial algebras and Gr bner basis theory for left ideals of solvable polynomial algebras and submodules of free modules The new filtered graded techniques combined with the determination of the existence of graded monomial orderings The elimination theory and methods for left ideals and submodules of free modules combining the Gr bner basis techniques with the use of Gelfand Kirillov dimension and the construction of different kinds of elimination orderings The computational construction of finite free resolutions including computation of syzygies construction of different kinds of finite minimal free resolutions based on computation of different kinds of minimal generating sets etc This book is perfectly suited to researchers and postgraduates researching noncommutative computational algebra and would also be an ideal resource for teaching an advanced lecture course

American Book Publishing Record ,2003 **Mathematical Software - ICMS 2006** Andres Iglesias,Nobuki Takayama,2006-08-24 This book constitutes the refereed proceedings of the Second International Congress on Mathematical Software ICMS 2006 The book presents 45 revised full papers carefully reviewed and selected for presentation The papers are organized in topical sections on new developments in computer algebra packages interfacing computer algebra in mathematical visualization software for algebraic geometry and related topics number theoretical software methods in computational number theory free software for computer algebra and general issues

This book delves into Algorithmic Methods In Noncommutative Algebra Applications To Quantum Groups. Algorithmic Methods In Noncommutative Algebra Applications To Quantum Groups is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Algorithmic Methods In Noncommutative Algebra Applications To Quantum Groups, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
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 - Chapter 5: Conclusion
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4. In chapter 3, this book will examine the practical applications of Algorithmic Methods In Noncommutative Algebra Applications To Quantum Groups in daily life. This chapter will showcase real-world examples of how Algorithmic Methods In Noncommutative Algebra Applications To Quantum Groups can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Algorithmic Methods In Noncommutative Algebra Applications To Quantum Groups in specific contexts. This chapter will explore how Algorithmic Methods In Noncommutative Algebra Applications To Quantum Groups is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Algorithmic Methods In Noncommutative Algebra Applications To Quantum Groups. The final chapter will summarize the key points that have been discussed throughout the book. The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Algorithmic Methods In Noncommutative Algebra Applications To Quantum Groups.

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