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Mathematicsfor MachineLearning European Mathematical Society
Resultsfrom national and international assessmentsindicate that school children in the U nited States are not learning mathematicswell enough. Many studentscannot correctly apply computational algorithmsto solve problems. Their understanding and uæ of decimalsand fractionsare especially weak. Indeed, helping all children succeed in mathematicsis an imperative national goal. H owever, for our youth to succeed, we need to change how we $€$ reteaching thisdiscipline. Helping Children Learn Mathematicsprovidescomprehensive and reliable information that will guide efforts to improve school mathematicsfrom pre-kindergarten through eighth grade. The authorsexplain the five strands of mathematical proficiency and discussthe major changesthat need to be made in mathematics instruction, instructional materials, assessments, teacher education, and the broader educational system and answerssome of the frequently asked questionswhen it comesto mathematics instruction. Thebook concludesby providing recommended actionsfor parentsand caregivers, teachers, administrators, and policy makers, stressing the importance that everyonework together to ensure a mathematically literate society.
EssaysDedicated to Pierpaolo Degano on the O ccasion of His65th Birthday American Mathematical Soc. Thisgraduate level text is intended for initial courses in algebrathat proceed at a faster pace than undergraduate level courses, Subjectsincludegroups, rings, fields, and Galoistheory. 1983edition. Includes 11 figures A ppendix. References Index.
Proceedingsof the London Mathematical Society Symposium, Durham 1991 C ambridge U niversity Press A classic problem in mathematicsissolvings/stemsof polynomial equationsin several unknowns Today, polynomia modelsare ubiquitousand widely used acrossthe sciences They arise in robotics, coding theory, optimization, mathematical biology, computer vision, game theory, statistics, and numerousother areas Thisbook furnishesa bridge acrossmathematical disciplines and exposesmany facetsof s/stems of polynomial equations It covers a wide spectrum of mathematical techniquesand algorithms both symbolic and numerical. The set of solutionsto ass/sem of polynomia equationsisan algebraic variety - the basic object of algebraic geometry. The algorithmic study of algebraic varieties isthe central theme of computational algebraic geometry. Exciting recent developmentsin computer softwarefor geometric calculationshave revolutionized the field. Formerly inaccessible problemsare now tractable, providing fertile ground for experimentation and conjecture. The first half of the book givesa shapshot of the state of the art of the topic. Familiar themesare covered in the first five chapters, including polynomialsin one variable, Grobner baes of zero-dimensional ideals, Nevton polytopesand Bernstein'sTheorem, multidimensional resultants, and primary decomposition. The second half of the book explores polynomial equationsfrom avariety of novel and unexpected angles It introducesinterdisciplinary connections, discusseshighlightsof current reesearch, and outlinespossible future algorithms Topicsinclude computation of N ash equilibriain game theory, semidefinite programming and the real Nullstellensatz, the algebraic geometry of statistical models, the piecevise linear geometry of valuations and amoebas, and the Ehrenpreis Palamodov theorem on linear partial differential equationswith constant coefficientsThroughout the text, there are many hands on examples and exercises including short but complete sessionsin Mapler, MATLA BR, Macaulay 2, Singular, PH C pack, CoCoA , and SO ST ools soffware. These exampleswill be particularly uefful for readerswith no background in algebraic geometry or commutative algebra Within minutes, readerscan learn how to type in polynomial equationsand actually soe some meaningful resultson their computer screens Prerequistesinclude basic abstract and computational algebra. The book isdesigned as atext for agraduate course in computational algebra. AlgebraW orld Scientific
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graduate studentsin physicsand in mathematics It can also be used asa reference by more advanced readers. The authorscover alarge but well-chosen variety of subjectsfrom the theory of quantum groups (quantized universal enveloping algebras, quantized algebras of functions) and $q$ - deformed algebras ( $q$ - oscillator algebras), their representationsand corepresentations, and noncommutative differential calculus. The book is written with potential applicationsin physicsand mathematicsin mind. The basic quantum groupsand quantum algebras and their representationsaregiven in detail and accompanied by explicit formulas A number of topicsand resultsfrom the more advanced general theory are developed and discused. Algebra2C ambridge University Press
A seff-contained introduction to applicationsof loop representationsand knot theory in quantum gravity. Fundamentals of Computation Theory Progressin Commutative A Igebra2C losures, Finitenessand Factorization
"Thisvolume containsthe proceedings of the AMSSpecial Session on Noncommutative Birationa
Geometry, Representationsand Cluster Algebras, held from January 6-7, 2012, in Boston, MA. The papers deal with various aspectsof noncommutative birational geometry and related topics, focusing mainly on structure and representations of quantum groups and agebras, braided algebras, rational series in free groups, Poisson bracketson free algebras, and related problemsin combinatorics Thisvolume isuseful for reearchersand graduate studentsin mathematicsand mathematical physicswho want to be introduced to different areas of current research in the new area of noncommutative algebra and geometry."--Publisher's website.
Interactive AlgebraFoundations + Life of Edition Title specific AccessC ard W ith Interactive Organizer, V ol. 1-3Springer
Thisbook constitutesthe proceedingsof the 23rd International Symposium on Fundamentalsof Computation Theory, FCT 2021, held in A thens, Greece, in September 2021. The 30full papers included in thisvolume were carefully reviewed and selected from 94submissions In addition, the book contains 2 invited talks. The paperscover topicsof all aspects of theoretical computer science in particular algorithms, complexity, formal and logical methods.
Fundamentals of A Igebraic Specification 1W orld Scientific
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Basic Linear Algebraisatext for first year studentsleading from concrete examplesto abstract theorems, viatutoriatype exercises M More exercises (of the kind astudent may expect in examination papers) are grouped at the end of each section. Thebook coversthe most important basics of any first course on linear algebra, explaining the algebra of matriceswith applicationsto analytic geometry, s/stems of linear equations, difference equations and complex numbers Linear equationsare treated viaH ermite normal formswhich providesasuccessful and concrete explanation of the notion of linear independence. A nother important highlight isthe connection between linear mappings and matricesleading to the change of basistheorem which opensthe door to the notion of smilarity. This new and revised edition features additional exerciss and coverage of Cramer'srule (omitted from the first edition). H owever, it isthe new, extrachapter on computer assistance that will be of particular interest to readers thiswill take the form of a tutorial on the use of the "LinearA Igebra" package in MAPLE 7 and will deal with all the aspectsof linear algebradeveloped within the book.
Basic Linear AlgebraN ational A cademiesPress
C ategory theory providesstructure for the mathematical world and isseen everywhere in modern mathematics, With thisbook, the author bridgesthe gap between pure category theory and itsnumerous applicationsin homotopy theory, providing the necessary background information to make the subject accessible to graduate sudentsor researcherswith abackground in algebraic topology and agebra. The reader isfirst introduced to category theory, stating with basic definitions and conceptsbefore progressing to more advanced themes Concrete examples and exercisssillustrate the topics, ranging from colimitsto constructionssuch asthe Day convolution product. Pat II coversimportant applications of category theory, giving athorough introduction to simplicial objectsincluding an account of quasi- categories and Segal sets. Diagram calegoriesplay acentral role throughout the book, giving rise to models of iterated loop spaces, and feature prominently in functor homology and homology of small categories Essays Dedicated to Bernd Kr mer on the O ccasion of H is65th Birthday Courier Corporation Thisvolume is a compilation of lectures on algebras and combinatorics presented at the Second International Congressin A Igebra and Combinatorics It reportson not only new resslts, but also on open problemsin the fied. The proceedingsvolume isuseful for graduate students and reearchersin algebras and combinatorics C ontributors include eminent figuressuch asV Artamanov, L Bokut, JFountain, P Hilton, M Jambu, P Kolennikov, Li Wei and K Ueno.
5 th International Conference, A LP '96, A achen, Germany, September 25-27, 1996. Proceedings Springer
The problem of classifying the finite dimensional simple Lie algebrasover fields of characteristic p>0 isalong standing one. W ork on thisquestion hasbeen directed by the K ostrikin Shafarevich C onjecture of 1966, which statesthat over an algebraically closed field of characteristic p > 5afinite dimensional restricted simple Lie algebra isclassical or of Cartan type. Thisconjecture wasproved for $p>7$ by Block and Wilson in 1988. Thegeneralization of the Kostrikin-Shafarevich Conjecture for thegeneral case of not necessarily restricted Lie algebrasand p>7wasannounced in 1991 by Strade and W ilson and eventually proved by Strade in 1998. The final Block-W ilson- Strade Premet Classification Theorem is landmark result of modern mathematics and can be formulated as follows Every simple finite dimensional smpleLie algebraover an algebraically closed field of characteristic p > 3is of classical, Cartan, or Melikian type. Thisisthe second part of athree volume book about the classification of the simple Lie algebras over algebraically closed fields of characteristic > 3. The first volume containsthe methods, examples and afirst classification result. Thissecond volume presentsinsight in the structure of tori of H amiltonian and Melikian algebras. Based on sandwich element methodsdue to A. I. Kostrikin and A. A. Premet and the investigations of filtered and graded Lie algebras, acomplete proof for the classification of absolute toral rank 2simple Lie algebrasover algebraically closed fields of characteristic > 3isgiven. ContentsT ori in H amiltonian and Melikian algebras 1 -sectionsSandwich elementsand rigid tori Towardsgraded algebrasThe toral rank 2case
Algebraic Specification Techniquesin O bject O riented Programming Environments Springer Science \& BusinessM edia
The main aim of thismonograph isto provide aframevork for the integrated design of object- oriented programswith algebraic specification techniques The design method pursued reliesfundamentally on the structuring of 3 stemsbased on the notion of datatypes Depending on the level of abstraction, datatypesare described in an object- oriented way by algebraic specificationsor by machine executable object-oriented programs. The treatment involvestwo main aspects. First, object-oriented programshave to be related by a notion of correctnessthat modelsthe transition from specificationsto program implementations The author presentsanotion of correctnesswhich relieson the idea of abstraction functions Second, in order to obtain
an integrated design environment, a uniform structuring concept for object oriented programsand algebraic specificationshasto be provided. Inheritance, subtyping and clientship are threecentral notionsof objectoriented structuring. Theauthor usesthem to develop the kernel of atyped object- oriented programming language. Themonograph providesthe formal foundation for aunified framework of algebraic specifications and object- oriented programs. A major guideline isthe development of adesign method supporting the structured design and reuse of software in thisenvironment.
K-theory and Noncommutative Geometry Springer Nature
H igh school algebra, grades $9-12$.

