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**Lipschitz Functions** 2019-05-23 the aim of this book is to present various facets of the theory and applications of lipschitz functions starting with classical and culminating with some recent results among the included topics we mention characterizations of lipschitz functions and relations with other classes of functions extension results for lipschitz functions and lipschitz partitions of unity lipschitz free banach spaces and their applications compactness properties of lipschitz operators bishop phelps type results for lipschitz functionals applications to best approximation in metric and in metric linear spaces kantorovich rubinstein norm and applications to duality in the optimal transport problem lipschitz mappings on geodesic spaces the prerequisites are basic results in real analysis functional analysis measure theory including vector measures and topology which for reader s convenience are surveyed in the first chapter of the book
**Complexity and Randomness in Group Theory** 2020-06-08 this book shows new directions in group theory motivated by computer science it reflects the transition from geometric group theory to group theory of the 21st century that has strong connections to computer science now that geometric group theory is drifting further and further away from group theory to geometry it is natural to look for new tools and new directions in group theory which are present
**Discrete Geometry and Algebraic Combinatorics** 2022-10-06 this volume contains the proceedings of the ams special session

on discrete geometry and algebraic combinatorics held on january 11 2013 in san diego california the collection of articles in this volume is devoted to packings of metric spaces and related questions and contains new results as well as surveys of some areas of discrete geometry this volume consists of papers on combinatorics of transportation polytopes including results on the diameter of graphs of such polytopes the generalized steiner problem and related topics of the minimal fillings theory a survey of distance graphs and graphs of diameters and a group of papers on applications of algebraic combinatorics to packings of metric spaces including sphere packings and topics in coding theory in particular this volume presents a new approach to duality in sphere packing based on the poisson summation formula applications of semidefinite programming to spherical codes and equiangular lines new results in list decoding of a family of algebraic codes and constructions of bent and semi bent functions **"I don't translate, I create!"** 2015-04-01 this book presents cutting edge research in translation studies offering stimulating discussions on translation and providing fresh perspectives on the field papers in translation studies features a selection of papers originally authored for this volume addressing a variety of issues from different points of view and offering interesting contributions to the critical literature of the field the volume provides useful resources that will be of great benefit for academics students and practitioners the contributions to this book promote research on translation theory and practice and suggest ways of dealing with translation problems the volume chapters are written by researchers from around the world and consider various different languages and contexts areas of investigation include contrastive linguistics and translation corpus based translation studies natural language processing machine translation and translator training
*Metric Modular Spaces* 2015-12-14 aimed toward researchers and graduate students familiar with elements of functional

analysis linear algebra and general topology this book contains a general study of modulars modular spaces and metric modular spaces modulars may be thought of as generalized velocity fields and serve two important purposes generate metric spaces in a unified manner and provide a weaker convergence the modular convergence whose topology is non metrizable in general metric modular spaces are extensions of metric spaces metric linear spaces and classical modular linear spaces the topics covered include the classification of modulars metrizability of modular spaces modular transforms and duality between modular spaces metric and modular topologies applications illustrated in this book include the description of superposition operators acting in modular spaces the existence of regular selections of set valued mappings new interpretations of spaces of lipschitzian and absolutely continuous mappings the existence of solutions to ordinary differential equations in banach spaces with rapidly varying right hand sides

**Papers in Translation Studies** 2013-08-16 mapping class groups and moduli spaces of riemann surfaces were the topics of the graduate summer school at the 2011 ias park city mathematics institute this book presents the nine different lecture series comprising the summer school covering a selection of topics of current interest the introductory courses treat mapping class groups and teichmüller theory the more advanced courses cover intersection theory on moduli spaces the dynamics of polygonal billiards and moduli spaces the stable cohomology of mapping class groups the structure of torelli groups and arithmetic mapping class groups the courses consist of a set of intensive short lectures offered by leaders in the field designed to introduce students to exciting current research in mathematics these lectures do not duplicate standard courses available elsewhere the book should be a valuable resource for graduate students and researchers interested in the topology geometry and dynamics of moduli spaces of riemann surfaces and related topics

titles in this series are co published with the institute for advanced study park city mathematics institute members of the mathematical association of america maa and the national council of teachers of mathematics nctm receive a 20 discount from list price

Pre-reflective Consciousness 2020-02-07 this icme 13 topical survey reviews the state of the art by first exploring the roots and scope of design science second it presents two examples of current design science projects that focus on substantial learning environments including a student and a teacher perspective subsequently the book elaborates on how empirical research can be conceptualised within design science lastly it explores developments in design science from a national and international perspective while also discussing current trends in design research within the german language tradition considering mathematics education as a design science primarily draws on the works of wittmann the core of this approach constitutes designing and investigating learning environments that involve substantial mathematics

**Continuous Semigroups of Holomorphic Self-maps of the Unit Disc** 2020-02-14 the book faces the interplay among dynamical properties of semigroups analytical properties of infinitesimal generators and geometrical properties of koenigs functions the book includes precise descriptions of the behavior of trajectories backward orbits petals and boundary behavior in general aiming to give a rather complete picture of all interesting phenomena that occur in order to fulfill this task we choose to introduce a new point of view which is mainly based on the intrinsic dynamical aspects of semigroups in relation with the hyperbolic distance and a deep use of carathéodory prime ends topology and gromov hyperbolicity theory this work is intended both as a reference source for researchers interested in the subject and as an introductory book for beginners with a undergraduate background in real and complex analysis for this

purpose the book is self contained and all non standard and mostly all standard results are proved in details
Conference Interpreting in China 2020-06-03 this book is devoted to the application of fractional calculus in economics to describe processes with memory and non locality fractional calculus is a branch of mathematics that studies the properties of differential and integral operators that are characterized by real or complex orders fractional calculus methods are powerful tools for describing the processes and systems with memory and nonlocality recently fractional integro differential equations have been used to describe a wide class of economical processes with power law memory and spatial nonlocality generalizations of basic economic concepts and notions the economic processes with memory were proposed new mathematical models with continuous time are proposed to describe economic dynamics with long memory this book is a collection of articles reflecting the latest mathematical and conceptual developments in mathematical economics with memory and non locality based on applications of fractional calculus
**Sourcebook in the Mathematics of Medieval Europe and North Africa** 2019-04-26 the purpose of this open access compendium written by experienced researchers in mathematics education is to serve as a resource for early career researchers in furthering their knowledge of the state of the field and disseminating their research through publishing to accomplish this the book is split into four sections empirical methods important mathematics education themes academic writing and academic publishing and a section looking ahead the chapters are based on workshops that were presented in the early career researcher day at the 13th international congress on mathematical education icme 13 the combination of presentations on methodological approaches and theoretical perspectives shaping the field in mathematics education research as well as the strong emphasis on academic writing and publishing offered

strong insight into the theoretical and empirical bases of research in mathematics education for early career researchers in this field based on these presentations the book provides a state of the art overview of important theories from mathematics education and the broad variety of empirical approaches currently widely used in mathematics education research this compendium supports early career researchers in selecting adequate theoretical approaches and adopting the most appropriate methodological approaches for their own research furthermore it helps early career researchers in mathematics education to avoid common pitfalls and problems while writing up their research and it provides them with an overview of the most important journals for research in mathematics education helping them to select the right venue for publishing and disseminating their work

**Office Hours with a Geometric Group Theorist** 2014-11-18 articles in this collection are devoted to modern problems of topology geometry mathematical physics and integrable systems and they are based on talks given at the famous novikov s seminar at the steklov institute of mathematics in moscow in 2012 2014 the articles cover many aspects of seemingly unrelated areas of modern mathematics and mathematical physics they reflect the main scientific interests of the organizer of the seminar sergey petrovich novikov the volume is suitable for graduate students and researchers interested in the corresponding areas of mathematics and physics

**Moduli Spaces of Riemann Surfaces** 2018-01-01 this document provides the comprehensive list of chinese national standards category gb gb t gbt

**Quantum Waveguides** 2012-12-06 first published in 1202 fibonacci s liber abaci was one of the most important books on mathematics in the middle ages introducing arabic numerals and methods throughout europe this is the first translation into a modern european language of interest not only to historians of science but also to all mathematicians and mathematics teachers

interested in the origins of their methods

The Language of Mathematics 2011-09-09 a new and unique way of understanding the translation of concepts and natural language into mathematical expressions transforming a body of text into corresponding mathematical expressions and models is traditionally viewed and taught as a mathematical problem it is also a task that most find difficult the language of mathematics utilizing math in practice reveals a new way to view this process not as a mathematical problem but as a translation or language problem by presenting the language of mathematics explicitly and systematically this book helps readers to learn mathematics and improve their ability to apply mathematics more efficiently and effectively to practical problems in their own work using parts of speech to identify variables and functions in a mathematical model is a new approach as is the insight that examining aspects of grammar is highly useful when formulating a corresponding mathematical model this book identifies the basic elements of the language of mathematics such as values variables and functions while presenting the grammatical rules for combining them into expressions and other structures the author describes and defines different notational forms for expressions and also identifies the relationships between parts of speech and other grammatical elements in english and components of expressions in the language of mathematics extensive examples are used throughout that cover a wide range of real world problems and feature diagrams and tables to facilitate understanding the language of mathematics is a thought provoking book of interest for readers who would like to learn more about the linguistic nature and aspects of mathematical notation the book also serves as a valuable supplement for engineers technicians managers and consultants who would like to improve their ability to apply mathematics effectively systematically and efficiently to practical problems

*Preconditioning and the Conjugate Gradient Method in the*

*Context of Solving PDEs* 2016-01-05 i don t translate i create this is the slogan of a translation agency called sternkopf communications located in flöha germany the translators at this translation agency are specialized in the field of marketing and perceive creativeness their daily bread but what does this actually mean i don t translate i create undoubtedly the translation of a text from one language into another is not an easy and straightforward process on the contrary the translator needs to invest much time and one or the other headache before a target text tt finally sounds natural fluent coherent and logical for the target audience different possible translation solutions will have to be considered language as well as culture related equivalents often are not easily at hand etc would it not be pleasant if machine translation mt was there to help with this process yet despite the enormous importance of creativity in translating computer aided translation cat tools are being used frequently by professional translators not to replace but to support the translator in their daily business cat tools enable their users to translate in a more consistent way since they search source texts for words phrases or sentences that have already been translated before and stored in the tm so that the translator does not need to translate this text unit again from scratch considering that this process brings about what could be called semi mechanical tts the use of cat tools seems to stand in stark contrast to the importance of creativity mentioned above thus the question arises whether cat tools influence the creative energy of translators and if this is the case whether translators regard this influence as rather positive or negative in this context it is also important to consider which fields of expertise generally demand a high degree of uniformity consistency in translations and which subject fields generally allow for a high degree of creative freedom accordingly this paper pursues two related purposes the first is to compare five cat tools in their degree of usability the second purpose is to identify translators perspectives on

uniformity and creativity in translations with the goal to shedding light on the question whether cat tools generally tend to positively or negatively influence the translation process on a rather linguistic than technological basis

Design Science and Its Importance in the German Mathematics Educational Discussion

*Arithmetic Geometry of Logarithmic Pairs and Hyperbolicity of Moduli Spaces* 2017 an introduction to the modern representation theory of big groups exploring its connections to probability and algebraic combinatorics

New Ideas In Low Dimensional Topology 2020-10-12 this book consists of a selection of articles devoted to new ideas and developments in low dimensional topology low dimensions refer to dimensions three and four for the topology of manifolds and their submanifolds thus we have papers related to both manifolds and to knotted submanifolds of dimension one in three classical knot theory and two in four surfaces in four dimensional spaces some of the work involves virtual knot theory where the knots are abstractions of classical knots but can be represented by knots embedded in surfaces this leads both to new interactions with classical topology and to new interactions with essential combinatorics

**Differential Equations and Dynamical Systems** 2018-10-20 this book features papers presented during a special session on dynamical systems mathematical physics and partial differential equations research articles are devoted to broad complex systems and models such as qualitative theory of dynamical systems theory of games circle diffeomorphisms piecewise smooth circle maps nonlinear parabolic systems quadtratic dynamical systems billiards and intermittent maps focusing on a variety of topics from dynamical properties to stochastic properties of dynamical systems this volume includes discussion on discrete numerical tracking conjugation between two critical circle maps invariance principles and the central limit theorem applications to game

theory and networks are also included graduate students and researchers interested in complex systems differential equations dynamical systems functional analysis and mathematical physics will find this book useful for their studies the special session was part of the second usa uzbekistan conference on analysis and mathematical physics held on august 8 12 2017 at urgench state university uzbekistan the conference encouraged communication and future collaboration among u s mathematicians and their counterparts in uzbekistan and other countries main themes included algebra and functional analysis dynamical systems mathematical physics and partial differential equations probability theory and mathematical statistics and pluripotential theory a number of significant recently established results were disseminated at the conference s scheduled plenary talks while invited talks presented a broad spectrum of findings in several sessions based on a different session from the conference algebra complex analysis and pluripotential theory is also published in the springer proceedings in mathematics statistics series

*Mathematical Knowledge and the Interplay of Practices*

2015-05-31 this monograph explains the theory of quantum waveguides that is dynamics of quantum particles confined to regions in the form of tubes layers networks etc the focus is on relations between the confinement geometry on the one hand and the spectral and scattering properties of the corresponding quantum hamiltonians on the other perturbations of such operators in particular by external fields are also considered the volume provides a unique summary of twenty five years of research activity in this area and indicates ways in which the theory can develop further the book is fairly self contained while it requires some broader mathematical physics background all the basic concepts are properly explained and proofs of most theorems are given in detail so there is no need for additional sources without a parallel in the literature the monograph by exner and kovarik guides the reader through this new and

exciting field
Kinetic Equations 2014-08-28 this two volume monograph is a comprehensive and up to date presentation of the theory and applications of kinetic equations the first volume covers many particle dynamics maxwell models of the boltzmann equation including their exact and self similar solutions and hydrodynamic limits beyond the navier stokes level
Spectral Geometry of Partial Differential Operators 2016-07-26
**Spectral Analysis, Differential Equations and Mathematical Physics: A Festschrift in Honor of Fritz Gesztesy's 60th Birthday** 2013-07-08 this volume contains twenty contributions in the area of mathematical physics where fritz gesztesy made profound contributions there are three survey papers in spectral theory differential equations and mathematical physics which highlight in particu
**Veech Groups and Translation Coverings** 2012-04-24 pre reflective consciousness sartre and contemporary philosophy of mind delves into the relationship between the current analytical debates on consciousness and the debates that took place within continental philosophy in the twentieth century and in particular around the time of sartre and within his seminal works examining the return of the problem of subjectivity in philosophy of mind and the idea that phenomenal consciousness could not be reduced to functional or cognitive properties this volume includes twenty two unique contributions from leading scholars in the field asking questions such as why we should think that self consciousness is non reflective is subjectivity first personal does consciousness necessitate self awareness do we need pre reflective self consciousness are ego disorders in psychosis a dysfunction of pre reflective self awareness how does the cartesian duality between body and mind fit into sartre s conceptions of consciousness
*The Abel Prize 2008-2012* 2016-11-01 medieval europe was a meeting place for the christian jewish and islamic civilizations

and the fertile intellectual exchange of these cultures can be seen in the mathematical developments of the time this sourcebook presents original latin hebrew and arabic sources of medieval mathematics and shows their cross cultural influences most of the hebrew and arabic sources appear here in translation for the first time readers will discover key mathematical revelations foundational texts and sophisticated writings by latin hebrew and arabic speaking mathematicians including abner of burgos s elegant arguments proving results on the conchoid a curve previously unknown in medieval europe levi ben gershon s use of mathematical induction in combinatorial proofs al mu taman ibn hūd s extensive survey of mathematics which included proofs of heron s theorem and ceva s theorem and muhyī al dīn al maghribī s interesting proof of euclid s parallel postulate the book includes a general introduction section introductions footnotes and references the sourcebook in the mathematics of medieval europe and north africa will be indispensable to anyone seeking out the important historical sources of premodern mathematics

**The Golden Anniversary Celebration of the National Association of Mathematicians** 2020-12-10 this volume is put together by the national association of mathematicians to commemorate its 50th anniversary the articles in the book are based on lectures presented at several events at the joint mathematics meeting held from january 16 19 2019 in baltimore maryland including the claytor woodard lecture as well as the nam david harold blackwell lecture which was held on august 2 2019 in cincinnati ohio

**Assessing Information Processing and Online Reasoning as a Prerequisite for Learning in Higher Education** 2020-10-31 this textbook introduces exciting new developments and cutting edge results on the theme of hyperbolicity written by leading experts in their respective fields the chapters stem from mini courses given alongside three workshops that took place in montréal between 2018 and 2019 each chapter is self contained

including an overview of preliminaries for each respective topic this approach captures the spirit of the original lectures which prepared graduate students and those new to the field for the technical talks in the program the four chapters turn the spotlight on the following pivotal themes the basic notions of o minimal geometry which build to the proof of the ax schanuel conjecture for variations of hodge structures a broad introduction to the theory of orbifold pairs and campana s conjectures with a special emphasis on the arithmetic perspective a systematic presentation and comparison between different notions of hyperbolicity as an introduction to the lang vojta conjectures in the projective case an exploration of hyperbolicity and the lang vojta conjectures in the general case of quasi projective varieties arithmetic geometry of logarithmic pairs and hyperbolicity of moduli spaces is an ideal resource for graduate students and researchers in number theory complex algebraic geometry and arithmetic geometry a basic course in algebraic geometry is assumed along with some familiarity with the vocabulary of algebraic number theory **Mathematical Economics** 2018-12-28 the imperative that all students including english learners els achieve high academic standards and have opportunities to participate in science technology engineering and mathematics stem learning has become even more urgent and complex given shifts in science and mathematics standards as a group these students are underrepresented in stem fields in college and in the workforce at a time when the demand for workers and professionals in stem fields is unmet and increasing however english learners bring a wealth of resources to stem learning including knowledge and interest in stem related content that is born out of their experiences in their homes and communities home languages variation in discourse practices and in some cases experiences with schooling in other countries english learners in stem subjects transforming classrooms schools and lives examines the research on els learning teaching and assessment in stem

subjects and provides guidance on how to improve learning outcomes in stem for these students this report considers the complex social and academic use of language delineated in the new mathematics and science standards the diversity of the population of els and the integration of english as a second language instruction with core instructional programs in stem

*Fibonacci's Liber Abaci* 2014-01-21 covering the years 2008 2012 this book profiles the life and work of recent winners of the abel prize john g thompson and jacques tits 2008 mikhail gromov 2009 john t tate jr 2010 john w milnor 2011 endre szemerédi 2012 the profiles feature autobiographical information as well as a description of each mathematician s work in addition each profile contains a complete bibliography a curriculum vitae as well as photos old and new as an added feature interviews with the laureates are presented on an accompanying web site extras springer com the book also presents a history of the abel prize written by the historian kim helsvig and includes a facsimile of a letter from niels henrik abel which is transcribed translated into english and placed into historical perspective by christian skau this book follows on the abel prize 2003 2007 the first five years springer 2010 which profiles the work of the first abel prize winners

**Math Girls** 2011 originally published 2007 in japan by softbank creative corp tokyo

**Compendium for Early Career Researchers in Mathematics Education** 2016-06-06 this book explores the many disciplinary and theoretical links between language linguistics and mathematics it examines trends in linguistics such as structuralism conceptual metaphor theory and other relevant theories to show that language and mathematics have a similar structure but differential functions even though one without the other would not exist

Representations of the Infinite Symmetric Group 2017-07-11 geometric group theory is the study of the interplay between

groups and the spaces they act on and has its roots in the works of henri poincaré felix klein j h c whitehead and max dehn office hours with a geometric group theorist brings together leading experts who provide one on one instruction on key topics in this exciting and relatively new field of mathematics it s like having office hours with your most trusted math professors an essential primer for undergraduates making the leap to graduate work the book begins with free groups actions of free groups on trees algorithmic questions about free groups the ping pong lemma and automorphisms of free groups it goes on to cover several large scale geometric invariants of groups including quasi isometry groups dehn functions gromov hyperbolicity and asymptotic dimension it also delves into important examples of groups such as coxeter groups thompson s groups right angled artin groups lamplighter groups mapping class groups and braid groups the tone is conversational throughout and the instruction is driven by examples accessible to students who have taken a first course in abstract algebra office hours with a geometric group theorist also features numerous exercises and in depth projects designed to engage readers and provide jumping off points for research projects

**Language and Mathematics** 2023-06-09 in this landmark project moratto and zhang evaluate how conference interpreting developed as a profession in china and the directions in which it is heading bringing together perspectives from leading researchers in the field moratto and zhang present a thematically organized analysis of the trajectory of professional conference interpreting in china this includes discussion of the pedagogies used both currently and historically the professionalization of interpreter education and future prospects for virtual reality multimodal conferences and artificial intelligence taken as a whole the contributors present a rich and detailed picture of the development of conference interpreting in china since 1979 its status today and how it is likely to develop in the coming decades

an essential resource for scholars and students of conference interpreting in china alongside its sister volume the pioneers of chinese interpreting insiders accounts on the rise of a profession *English Learners in STEM Subjects* 2014-09-03 this book contains new translations and a new analysis of the procedure texts of babylonian mathematical astronomy the earliest known form of mathematical astronomy of the ancient world the translations are based on a modern approach incorporating recent insights from assyriology and translation science the work contains updated and expanded interpretations of the astronomical algorithms and investigations of previously ignored linguistic mathematical and other aspects of the procedure texts special attention is paid to issues of mathematical representation and over 100 photos of cuneiform tablets dating from 350 50 bce are presented in 2 3 years the author intends to continue his study of babylonian mathematical astronomy with a new publication which will contain new editions and reconstructions of approx 250 tabular texts and a new philological astronomical and mathematical analysis of these texts tabular texts are end products of babylonian math astronomy computed with algorithms that are formulated in the present volume procedure texts

**Babylonian Mathematical Astronomy: Procedure Texts** 2015-10-16 the aim of spectral geometry of partial differential operators is to provide a basic and self contained introduction to the ideas underpinning spectral geometric inequalities arising in the theory of partial differential equations historically one of the first inequalities of the spectral geometry was the minimization problem of the first eigenvalue of the dirichlet laplacian nowadays this type of inequalities of spectral geometry have expanded to many other cases with number of applications in physics and other sciences the main reason why the results are useful beyond the intrinsic interest of geometric extremum problems is that they produce a priori bounds for spectral invariants of partial differential operators on arbitrary domains features collects the

ideas underpinning the inequalities of the spectral geometry in both self adjoint and non self adjoint operator theory in a way accessible by anyone with a basic level of understanding of linear differential operators aimed at theoretical as well as applied mathematicians from a wide range of scientific fields including acoustics astronomy mems and other physical sciences provides a step by step guide to the techniques of non self adjoint partial differential operators and for the applications of such methods provides a self contained coverage of the traditional and modern theories of linear partial differential operators and does not require a previous background in operator theory

GB, GB/T, GBT - Product Catalog. Translated English of Chinese Standard (All national standards GB, GB/T, GBT, GBZ) 2022-05-23 ruslan mitkov s highly successful oxford handbook of computational linguistics has been substantially revised and expanded in this second edition alongside updated accounts of the topics covered in the first edition it includes 17 new chapters on subjects such as semantic role labelling text to speech synthesis translation technology opinion mining and sentiment analysis and the application of natural language processing in educational and biomedical contexts among many others the volume is divided into four parts that examine respectively the linguistic fundamentals of computational linguistics the methods and resources used such as statistical modelling machine learning and corpus annotation key language processing tasks including text segmentation anaphora resolution and speech recognition and the major applications of natural language processing from machine translation to author profiling the book will be an essential reference for researchers and students in computational linguistics and natural language processing as well as those working in related industries

*Mathematics Education from an Asian Perspective (Penerbit USM)* 2015-01-27 this book presents an exceptional collection of 11 articles on contemporary research studies that address

current and critical issues of researches theories and practices in the fields of mathematics education at various levels from primary to tertiary education in addition the book covers various innovative research studies from both local and abroad such as cognitive diagnostic assessment cda and assessment for learning afl teaching and learning of mathematics using the dynamic geometry software dgs action process object schema apos theory and relationship mapping and inverse rmi principle as well as mathematics lesson structure mls and collaborative lesson research clr the contents of this book should be of interest to both national and international researchers and scholars particularly mathematics educators mathematics education researchers teacher trainers university students teachers curriculum planners as well as policymakers

*Toric Topology* 2015-07-15 this book is about toric topology a new area of mathematics that emerged at the end of the 1990s on the border of equivariant topology algebraic and symplectic geometry combinatorics and commutative algebra it has quickly grown into a very active area with many links to other areas of mathematics and continues to attract experts from different fields the key players in toric topology are moment angle manifolds a class of manifolds with torus actions defined in combinatorial terms construction of moment angle manifolds relates to combinatorial geometry and algebraic geometry of toric varieties via the notion of a quasitoric manifold discovery of remarkable geometric structures on moment angle manifolds led to important connections with classical and modern areas of symplectic lagrangian and non kaehler complex geometry a related categorical construction of moment angle complexes and polyhedral products provides for a universal framework for many fundamental constructions of homotopical topology the study of polyhedral products is now evolving into a separate subject of homotopy theory a new perspective on torus actions has also contributed to the development of classical areas of algebraic

topology such as complex cobordism this book includes many open problems and is addressed to experts interested in new ideas linking all the subjects involved as well as to graduate students and young researchers ready to enter this beautiful new area

Topology, Geometry, Integrable Systems, and Mathematical Physics 2014-12-22 preconditioning and the conjugate gradient method in the context of solving pdes is about the interplay between modeling analysis discretization matrix computation and model reduction the authors link pde analysis functional analysis and calculus of variations with matrix iterative computation using krylov subspace methods and address the challenges that arise during formulation of the mathematical model through to efficient numerical solution of the algebraic problem the book s central concept preconditioning of the conjugate gradient method is traditionally developed algebraically using the preconditioned finite dimensional algebraic system in this text however preconditioning is connected to the pde analysis and the infinite dimensional formulation of the conjugate gradient method and its discretization and preconditioning are linked together this text challenges commonly held views addresses widespread misunderstandings and formulates thought provoking open questions for further research

**The Oxford Handbook of Computational Linguistics**

2015-12-22 this book presents a new approach to the epistemology of mathematics by viewing mathematics as a human activity whose knowledge is intimately linked with practice charting an exciting new direction in the philosophy of mathematics josé ferreirós uses the crucial idea of a continuum to provide an account of the development of mathematical knowledge that reflects the actual experience of doing math and makes sense of the perceived objectivity of mathematical results describing a historically oriented agent based philosophy of mathematics ferreirós shows how the mathematical tradition

evolved from euclidean geometry to the real numbers and set theoretic structures he argues for the need to take into account a whole web of mathematical and other practices that are learned and linked by agents and whose interplay acts as a constraint ferreirós demonstrates how advanced mathematics far from being a priori is based on hypotheses in contrast to elementary math which has strong cognitive and practical roots and therefore enjoys certainty offering a wealth of philosophical and historical insights mathematical knowledge and the interplay of practices challenges us to rethink some of our most basic assumptions about mathematics its objectivity and its relationship to culture and science

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