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String-Math 2014 Curves and Surfaces Finite Difference Methods,Theory and Applications Applications of Mathematics in Engineering and Economics (amee'14). Algebraic Geometry and Number Theory Recent Advances in Mathematics Meeting the Challenges to Measurement in an Era of Accountability Partial Differential Equations and Geometric Measure Theory Mathematical Cultures Contemporary Research and Perspectives on Early Childhood Mathematics Education Integer Programming and Combinatorial Optimization Diversity in Mathematics Education Nonparametric Statistics Application of Mathematics in Technical and Natural Sciences Compendium for Early Career Researchers in Mathematics Education The Philosophy of Mathematics Education Modelling Electroanalytical Experiments by the Integral Equation Method The Best Writing on Mathematics 2015 e-Pedia: Captain America: Civil War Humanizing Mathematics and its Philosophy Algebra, Logic and Number Theory Advances in the Theory of Numbers DIY Project Based Learning for Math and Science 日経PC 21 (ピーシーニジュウイチ) 2014年 06月号 [雑誌] Outstanding Assessment for Learning in the Classroom Recent Advances in Intelligent Information Systems and Applied Mathematics A Project-Based Guide to Undergraduate Research in Mathematics The Role and Importance of Mathematics in Innovation The Mathematics Education for the Future Project – Proceedings of the 14th International Conference Outstanding Differentiation for Learning in the Classroom International Journal of Mathematical Combinatorics, Volume 2, 2019 Educational Paths to Mathematics Elementary Mathematical Models: An Accessible Development without Calculus, Second Edition The Mathematics Education for the Future Project. Proceedings of the 13th International Conference Mathematics Education in a Connected World Algorithms and Architectures for Parallel Processing Financial Literacy Education Customer Relationship Management Kazhdan-Lusztig Cells with Unequal Parameters Information and Software Technologies Literacy as Numbers Teacher's Book

String-Math 2014

2016-06-10

the conference string math 2014 was held from june 9 13 2014 at the university of alberta this edition of string math is the first to include satellite workshops string math summer school held from june 2 6 2014 at the university of british columbia calabi yau manifolds and their moduli held from june 14 18 2014 at the university of alberta and quantum curves and quantum knot invariants held from june 16 20 2014 at the banff international research station this volume presents the proceedings of the conference and satellite workshops for mathematics string theory has been a source of many significant inspirations ranging from seiberg witten theory in four manifolds to enumerative geometry and gromov witten theory in algebraic geometry to work on the jones polynomial in knot theory to recent progress in the geometric langlands program and the development of derived algebraic geometry and n category theory in the other direction mathematics has provided physicists with powerful tools ranging from powerful differential geometric techniques for solving or analyzing key partial differential equations to toric geometry to k theory and derived categories in d branes to the analysis of calabi yau manifolds and string compactifications to modular forms and other arithmetic techniques articles in this book address many of these topics

Curves and Surfaces

2015-08-13

this volume constitutes the thoroughly refereed post conference proceedings of the 8th international conference on curves and surfaces held in paris france in june 2014 the conference had the overall theme representation and approximation of curves and surfaces and applications the 32 revised full papers presented were carefully reviewed and selected from 39 submissions the scope of the conference was on following topics approximation theory computer aided geometric design computer graphics and visualization computational geometry and topology geometry processing image and signal processing interpolation and smoothing mesh generation finite elements and splines scattered data processing and learning theory sparse and high dimensional approximation subdivision wavelets and multi resolution method

Finite Difference Methods,Theory and Applications

2015-06-16

this book constitutes the thoroughly refereed post conference proceedings of the 6th international conference on finite difference methods fdm 2014 held in lozenetz bulgaria in june 2014 the 36 revised full papers were carefully reviewed and selected from 62 submissions these papers together with 12 invited papers cover topics such as finite difference and combined finite difference methods as well as finite element methods and their various applications in physics chemistry biology and finance

Applications of Mathematics in Engineering and Economics (amee'14).

2014

this lecture notes volume presents significant contributions from the algebraic geometry and number theory summer school held at galatasaray university istanbul june 2 13 2014 it addresses subjects ranging from arakelov geometry and iwasawa theory to classical projective geometry birational geometry and equivariant cohomology its main aim is to introduce these contemporary research topics to graduate students who plan to specialize in the area of algebraic geometry and or number theory all contributions combine main concepts and techniques with motivating examples and illustrative problems for the covered subjects naturally the book will also be of interest to researchers working in algebraic geometry number theory and related fields

Algebraic Geometry and Number Theory

2017-05-07

under pressure and support from the federal government states have increasingly turned to indicators based on student test scores to evaluate teachers and schools as well as students themselves the focus thus far has been on test scores in those subject areas where there is a sequence of consecutive tests such as in mathematics or english language arts with a focus on grades 4 8 teachers in these subject areas however constitute less than thirty percent of the teacher workforce in a district comparatively little has been written about the measurement of achievement in the other grades and subjects this volume seeks to remedy this imbalance by focusing on the assessment of student achievement in a broad range of grade levels and subject areas with particular attention to their use in the evaluation of teachers and schools in all it addresses traditional end of course tests as well as alternative measures such as portfolios exhibitions and student learning objectives in each case issues related to design and development psychometric considerations and validity challenges are covered from both a generic and a content specific perspective the ncme applications of educational measurement and assessment series includes edited volumes designed to inform research based applications of educational measurement and assessment edited by leading experts these books are comprehensive and practical resources on the latest developments in the field the ncme series editorial board is comprised of michael j kolen chair robert l brennan wayne camara edward h haertel suzanne lane and rebecca zwick

Recent Advances in Mathematics

2015

this book collects together lectures by some of the leaders in the field of partial differential equations and geometric measure theory it features a wide variety of research topics in which a crucial role is played by the interaction of fine analytic techniques and deep geometric observations combining the intuitive and geometric aspects of mathematics with analytical ideas and variational methods the problems addressed are challenging and complex and often require the use of several refined techniques to overcome the major difficulties encountered the lectures given during the course partial differential equations and geometric measure theory in cetraro june 2 7 2014 should help to encourage further research in the area the enthusiasm of the speakers and the participants of this cime course is reflected in the text

Meeting the Challenges to Measurement in an Era of Accountability

2016-01-29

this collection presents significant contributions from an international network project on mathematical cultures including essays from leading scholars in the history and philosophy of mathematics and mathematics education mathematics has universal standards of validity nevertheless there are local styles in mathematical research and teaching and great variation in the place of mathematics in the larger cultures that mathematical practitioners belong to the reflections on mathematical cultures collected in this book are of interest to mathematicians philosophers historians sociologists cognitive scientists and mathematics educators

Partial Differential Equations and Geometric Measure Theory

2018-05-23

this book brings together a collection of research based papers on current issues in early childhood mathematics education that were presented in the topic study group 1 tsg 1 at the 13th international congress on mathematical education icme 13 held at the university of hamburg in 2016 it will help readers understand a range of key issues that early childhood mathematics educators encounter today research on early childhood mathematics education has grown in recent years due in part to the well documented positive relation between children s early mathematical knowledge and their later mathematics learning and to the considerable emphasis many countries are now placing on preschool education the book addresses a number of central questions including what is mathematical structural development and how can we promote it in early childhood how can multimodality and embodiment contribute to early mathematics learning and to acquiring a better understanding of young children s mathematical development how can children s informal mathematics related experiences affect instruction and children s learning in different mathematics content areas what is the role of tools including technology and picture books in supporting early mathematics learning what are the challenges in early childhood mathematics education for teachers education and professional development

Mathematical Cultures

2016-05-25

this book constitutes the refereed proceedings of the 17th international conference on integer programming and combinatorial optimization ipco 2014 held in bonn germany in june 2014 the 34 full papers presented were carefully reviewed and selected from 143 submissions the conference is a forum for researchers and practitioners working on various aspects of integer programming and combinatorial optimization the aim is to present recent developments in theory computation and applications in these areas the scope of ipco is viewed in a broad sense to include algorithmic and structural results in integer programming and combinatorial optimization as well as revealing computational studies and novel applications of discrete optimization to practical problems

Contemporary Research and Perspectives on Early Childhood Mathematics Education

2018-02-21

this book presents a research focus on diversity and inclusivity in mathematics education the challenge of diversity largely in terms of student profiles or contextual features is endemic in mathematics education and is often argued to require differentiation as a response typically different curricula text materials task structures or pedagogies are favoured responses but huge differences in achievement still result if we in mathematics education seek to challenge that status quo more research must be focussed not just on diversity but also on the inclusivity of practices in mathematics education the book is written by a group of experienced collaborating researchers who share this focus it is written for researchers research students teachers and in service professionals who recognise both the challenges but also the opportunities of creating and evaluating new inclusive approaches to curriculum and pedagogy ones that take for granted the positive values of diversity several chapters report new research in this direction the authors are part of or have visited with the mathematics education staff of the faculty of education at monash university in melbourne australia the chapters all focus on the ideas of development in both research and practice recognising that the current need is for new inclusive approaches the studies presented are set in different contexts including australia china the united states and singapore

Integer Programming and Combinatorial Optimization

2014-05-17

this volume collects selected peer reviewed contributions from the 2nd conference of the international society for nonparametric statistics isnps held in cádiz spain between june 11 16 2014 and sponsored by the american statistical association the institute of mathematical statistics the bernoulli society for mathematical statistics and probability the journal of nonparametric statistics and universidad carlos iii de madrid the 15 articles are a representative sample of the 336 contributed papers presented at the conference they cover topics such as high dimensional data modelling inference for stochastic processes and for dependent data nonparametric and goodness of fit testing nonparametric curve estimation object oriented data analysis and semiparametric inference the aim of the isnps 2014 conference was to bring together recent advances and trends in several areas of nonparametric statistics in order to facilitate the exchange of research ideas promote collaboration among researchers from around the globe and contribute to the further development of the field

Diversity in Mathematics Education

2014-09-20

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

Nonparametric Statistics

2016-09-12

this survey provides a brief and selective overview of research in the philosophy of mathematics education it asks what makes up the philosophy of mathematics education what it means what questions it asks and answers and what is its overall importance and use it provides overviews of critical mathematics education and the most relevant modern movements in the philosophy of mathematics a case study is provided of an emerging research tradition in one country this is the hermeneutic strand of research in the philosophy of mathematics education in brazil this illustrates one orientation towards research inquiry in the philosophy of mathematics education it is part of a broader practice of philosophical archaeology the uncovering of hidden assumptions and buried ideologies within the concepts and methods of research and practice in mathematics education an extensive bibliography is also included

Application of Mathematics in Technical and Natural Sciences

2014

this comprehensive presentation of the integral equation method as applied to electro analytical experiments is suitable for electrochemists mathematicians and industrial chemists the discussion focuses on how integral equations can be derived for various kinds of electroanalytical models the book begins with models independent of spatial coordinates goes on to address models in one dimensional space geometry and ends with models dependent on two spatial coordinates bieniasz considers both semi infinite and finite spatial domains as well as ways to deal with diffusion convection homogeneous reactions adsorbed reactants and ohmic drops bieniasz also discusses mathematical characteristics of the integral equations in the wider context of integral equations known in mathematics part of the book is devoted to the solution methodology for the integral equations as analytical solutions are rarely possible attention is paid mostly to numerical methods and relevant software this book includes examples taken from the literature and a thorough literature overview with emphasis on crucial aspects of the integral equation methodology

Compendium for Early Career Researchers in Mathematics Education

2019-04-26

the year s finest writing on mathematics from around the world this annual anthology brings together the year s finest mathematics writing from around the world featuring promising new voices alongside some of the foremost names in the field the best writing on mathematics 2015 makes available to a wide audience many articles not easily found anywhere else and you don t need to be a mathematician to enjoy them these writings offer surprising insights into the nature meaning and practice of mathematics today they delve into the history philosophy teaching and everyday occurrences of math and take readers behind the scenes of today s hottest mathematical debates here david hand explains why we should actually expect unlikely coincidences to happen arthur benjamin and ethan brown unveil techniques for improvising custom made magic number squares dana mackenzie describes how mathematicians are making essential contributions to the development of synthetic biology steven strogatz tells us why it s worth writing about math for people who are alienated from it lisa rougetet traces the earliest written descriptions of nim a popular game of mathematical strategy scott aaronson looks at the unexpected implications of testing numbers for randomness and much much more in addition to presenting the year s most memorable writings on mathematics this must have anthology includes a bibliography of other notable writings and an introduction by the editor mircea pitici this book belongs on the shelf of anyone interested in where math has taken us and where it is headed

The Philosophy of Mathematics Education

2016-07-15

this carefully crafted ebook is formatted for your ereader with a functional and detailed table of contents captain america civil war is a 2016 american superhero film based on the marvel comics character captain america produced by marvel studios and distributed by walt disney studios motion pictures it is the sequel to 2011 s captain america the first avenger and 2014 s captain america the winter soldier and the thirteenth film of the marvel cinematic universe mcu the film is directed by anthony and joe russo with a screenplay by christopher markus stephen mcfeely and features an ensemble cast including chris evans robert downey jr scarlett johansson sebastian stan anthony mackie don cheadle jeremy renner chadwick boseman paul bettany elizabeth olsen paul rudd emily vancamp tom holland frank grillo william hurt and daniel brühl in captain america civil war disagreement over international oversight of the avengers fractures them into opposing factions one led by steve rogers and the other by tony stark this book has been derived from wikipedia it contains the entire text of the title wikipedia article the entire text of all the 634 related linked wikipedia articles to the title article this book does not contain illustrations

Modelling Electroanalytical Experiments by the Integral Equation Method

2014-12-29

this festschrift contains numerous colorful and eclectic essays from well known mathematicians philosophers logicians and linguists celebrating the 90th birthday of reuben hersh the essays offer in part attempts to answer the following questions set forth by reuben himself as a focus for this volume can practicing mathematicians as such contribute anything to the philosophy of math can or should philosophers of math as such say anything to practicing mathematicians twenty or fifty years from now what will be similar and what will or could or should be altogether different about the philosophy of math about math education about math research institutions about data processing and scientific computing the essays also offer glimpses into reuben s fertile mind and his lasting influence on the mathematical community as well as revealing the diverse roots obstacles and philosophical dispositions that characterize the working lives of mathematicians with contributions from a veritable who s who list of 20th century luminaries from mathematics and philosophy as well as from reuben himself this volume will appeal to a wide variety of readers from curious undergraduates to prominent mathematicians

The Best Writing on Mathematics 2015

2016-01-12

the theory of numbers continues to occupy a central place in modern mathematics because of both its long history over many centuries as well as its many diverse applications to other fields such as discrete mathematics cryptography and coding theory the proof by andrew wiles with richard taylor of fermat s last theorem published in 1995 illustrates the high level of difficulty of problems encountered in number theoretic research as well as the usefulness of the new ideas arising from its proof the thirteenth conference of the canadian number theory association was held at carleton university ottawa ontario canada from june 16 to 20 2014 ninety nine talks were presented at the conference on the theme of advances in the theory of numbers topics of the talks reflected the diversity of current trends and activities in modern number theory these topics included modular forms hypergeometric functions elliptic curves distribution of prime numbers diophantine equations l functions diophantine approximation and many more this volume contains some of the papers presented at the conference all papers were refereed the high quality of the articles and their contribution to current research directions make this volume a must for any mathematics library and is particularly relevant to researchers and graduate students with an interest in number theory the editors hope that this volume will serve as both a resource and an inspiration to future generations of researchers in the theory of numbers

e-Pedia: Captain America: Civil War

2017-02-11

are you interested in using project based learning to revamp your lessons but aren t sure how to get started in diy project based learning for math and science award winning teacher and edutopia blogger heather wolpert gawron makes it fun and easy project based learning encourages students and teachers alike to abandon their dusty textbooks and instead embrace a form of curriculum design focused on student engagement innovation and creative problem solving a leading name in this field heather wolpert gawron shares some of her most popular units for math and science in this exciting new collection this book is an essential resource for teachers looking to create their own project based learning units engage student in their education by grounding lessons in real world problems and encouraging them to develop creative solutions incorporate role playing into everyday learning develop real world lessons to get students to understand the life long relevance of what they are learning assess multiple skills and subject areas in an integrated way collaborate with teachers across subject areas test authentic skills and set authentic goals for their students to grow as individuals part i of the book features five full units complete with student samples targeted rubrics a checklist to keep students on track and even homework hints part ii is a mix and match section of tools you can use to create your own pbl aligned lessons the tools are available as eresources on our website routledge com 9781138891609 so you can print and use them in your classroom immediately

Humanizing Mathematics and its Philosophy

2017-11-07

この商品はタブレットなど大きいディスプレイを備えた端末で読むことに適しています また 文字だけを拡大することや 文字列のハイライト 検索 辞書の参照 引用などの機能が使用できません 特集1 エクセル文書 作図 エクセルは万能の文書作成ツール 作表の大ワザ小ワザを住所録で学ぶ フリガナを一括で付けるvbaワザ 住所をグーグルマップで開く裏ワザ レイアウトを組み替える上級ワザ 思い通りに印刷するテクニック シート グラフ 縦書きの裏ワザ 予定表 縦でも横でも自由自在 複雑なレイアウトは 方眼紙 で解決 グーグルマップを取り込んで書き込む サイズ指定で間取り図を正確に描く 驚きの こんなに自由な レイアウト 2タイプの組織図作成法を使い分け 見づらいグラフはこうやって修正する 傾向を把握する簡易グラフのススメ オンラインで無料の作例を入手 特集2 驚きのメール設定術 1つのメールソフトに 複数のメールを統合する iphoneもアンドロイドも 標準メールアプリで効率管理 特集3 こんなに使える 無料wi fi 無料wi fiを活用して タブレットや格安simを快適に タダ で使える場所が急増中 複数のサービスを賢く使いこなす 実質無料のスマホ向けサービスで タブレットやパソコンをネット接続 無料のwi fiサービスを より安全 快適に使う 特集4 よくわかる line電話の使い方 独自に検証 line電話はどれだけ安い 支払いも通話も簡単ですぐに使える 電子化にあたり 日経bp社に著作権のない記事 写真 図表は掲載しておりません 予めご了承ください また 紙の本に付録が付いている場合 通常電子書籍 雑誌には含まれません 予めご了承ください

Algebra, Logic and Number Theory

2016

the main feature of an outstanding lesson is that all students make progress taking the structure of a lesson as the starting point this book demonstrates how assessment for learning can be used to enhance and support all aspects of the learning process including chapters on embedding assessment during each phase of the lesson using assessment data to inform planning questioning techniques and feedback the book will help you to use assessment effectively to produce outstanding results

packed full of practical strategies this book shows you how you can make assessment meaningful in the classroom directly impacting your students and creating a more autonomous learning environment it is written specifically with the class teacher in mind and draws on a range of different examples across many subjects to deliver ideas that can be translated with ease to everyday teaching practices with a strong focus on including assessment practices in the planning process to achieve outstanding results this book covers assessment for learning and an overview of the learning cycle practical teaching strategies and effective techniques to use in the classroom marking feedback and using data to drive learning embedding assessment for learning in your classroom department and school an effective guide for outstanding teaching and learning this book offers an innovative approach and is packed full of practical exercises that are easy to apply in the classroom proving essential reading for newly qualified and experienced teachers alike

Advances in the Theory of Numbers

2016-08-23

this book describes the latest advances in intelligent techniques such as fuzzy logic neural networks and optimization algorithms and their relevance in building intelligent information systems in combination with applied mathematics the authors also outline the applications of these systems in areas like intelligent control and robotics pattern recognition medical diagnosis time series prediction and optimization of complex problems by sharing fresh ideas and identifying new targets problems it offers young researchers and students new directions for their future research the book is intended for readers from mathematics and computer science in particular professors and students working on theory and applications of intelligent systems for real world applications

DIY Project Based Learning for Math and Science

2016-02-05

this volume provides accessible and self contained research problems designed for undergraduate student projects and simultaneously promotes the development of sustainable undergraduate research programs the chapters in this work span a variety of topical areas of pure and applied mathematics and mathematics education each chapter gives a self contained introduction on a research topic with an emphasis on the specific tools and knowledge needed to create and maintain fruitful research programs for undergraduates some of the topics discussed include disease modeling tropical curves and surfaces numerical semigroups mathematics educationthis volume will primarily appeal to undergraduate students interested in pursuing research projects and faculty members seeking to mentor them it may also aid students and faculty participating in independent studies and capstone projects

日経PC 21 (ピーシーニジュウイチ) 2014年 06月号 [雑誌]

2014-04-24

this book is a collection of papers presented at the forum math for industry 2015 for which the unifying theme was the role and importance of mathematics in innovation held at the institute of mathematics for industry kyushu university october 26 30 2015 the theme highlights two key roles that mathematics plays in supporting innovation in science technology and daily life namely needs based and idea based for the former mathematics assists with sorting through the possibilities and putting matters on a more rigorous foundation and for the latter mathematical models of the possible implementations play a key role the book gives excellent examples of how mathematics assists with stimulating innovation and thereby highlights the importance and relevance of the concept mathematics for industry the contents of this volume address productive and successful interaction between industry and mathematicians as well as the cross fertilization and collaboration that result when mathematics is involved with the advancement of science and technology

Outstanding Assessment for Learning in the Classroom

2015-03-24

this volume contains the papers presented at the international conference on challenges in mathematics education for the next decade held from september 10 15 2017 in balatonfüred hungary the conference was organized by the mathematics education for the future project an international edu cational project founded in 1986

Recent Advances in Intelligent Information Systems and Applied Mathematics

2020-01-31

one of the key features of an outstanding lesson is that all learners make progress all learners are different and teachers must differentiate according to the individual pupil and their individual learning needs to achieve outstanding progress outstanding differentiation for learning in the classroom is written with the class teacher in mind and demonstrates how differentiation can be used to enhance and support all aspects of the learning process including chapters on embedding differentiation during each phase of the lesson assessment and questioning techniques this book will help you to use differentiation effectively to produce outstanding results with a strong focus on practical strategies to help you meaningfully apply differentiation in the classroom this book covers what differentiation actually means and why it should be applied in the classroom sequencing and planning for learning with an overview of the learning cycle practical teaching strategies and effective techniques to use in the classroom how to structure and apply differentiation practices in your classroom department and school a vital starting point and effective guide for outstanding differentiation this timely new book is packed full of practical exercises that are easy to implement in the classroom and it is essential reading for newly qualified and experienced teachers alike

A Project-Based Guide to Undergraduate Research in Mathematics

2020-04-17

international j mathematical combinatorics is a fully refereed international journal topics in detail to be covered are smarandache multi spaces with applications to other sciences such as those of algebraic multi systems multi metric spaces smarandache geometries differential geometry geometry on manifolds topological graphs algebraic graphs random graphs combinatorial maps graph and map enumeration combinatorial designs combinatorial enumeration low dimensional topology differential topology topology of manifolds geometrical aspects of mathematical physics and relations with manifold topology applications of smarandache multi spaces to theoretical physics applications of combinatorics to mathematics and theoretical physics mathematical theory on gravitational fields mathematical theory on parallel universes other applications of smarandache multi space and combinatorics

The Role and Importance of Mathematics in Innovation

2016-08-09

this book offers fresh insight and understanding of the many ways in which children youth and adults may find their paths to mathematics the chapters of the volume offer and analyse promising new ways into mathematics the focus is on spaces and modalities of learning dialogue and inquiry embodiment and aesthetic experience information and communication technology and on the use of mathematics in public communication the chapters present new mathematical activities and conceptions enriching the repertoire of mathematics education practices critical commentaries discuss the innovative potential of the new approaches to the teaching and learning of mathematics as a consequence the commentaries point to requirements and open issues in the field of research in mathematics education the volume is remarkably international teachers and researchers from 14 countries authored 21 chapters and 7 commentaries the reader is invited to reflect on the particular effect of presenting avenues to mathematics contrived in diverse national settings in which the praxis of mathematics education might look different compared to what happens in the reader s place the book starts a series of sourcebooks edited by cieaem the commission internationale pour l etude et l amélioration de l enseignement des mathématiques international commission for the study and improvement of mathematics education

The Mathematics Education for the Future Project – Proceedings of the 14th International Conference

2017-07-01

elementary mathematical models offers instructors an alternative to standard college algebra quantitative literacy and liberal arts mathematics courses presuming only a background of exposure to high school algebra the text introduces students to the methodology of mathematical modeling which plays a role in nearly all real applications of mathematics a course based on this text would have as its primary goal preparing students to be competent consumers of mathematical modeling in their future studies such a course would also provide students with an understanding of the modeling process and a facility with much of the standard non trigonometric content of college algebra and precalculus this book builds successively a series of growth models defined in terms of simple recursive patterns of change corresponding to arithmetic quadratic geometric and logistic growth students discover and come to understand linear polynomial exponential and logarithmic functions in the context of analyzing these models of intrinsically and scientifically interesting phenomena including polar ice extent antibiotic resistance and viral internet videos students gain a deep appreciation for the power and limitations of mathematical modeling in the physical life and social sciences as questions of modeling methodology are carefully and constantly addressed realistic examples are used consistently throughout the text and every topic is illustrated with models that are constructed from and compared to real data the text is extremely attractive and the exposition is extraordinarily clear the lead author of this text is the recipient of nine maa awards for expository writing including the ford evans pólya and allendoerfer awards and the beckenbach book prize great care has been taken by accomplished expositors to make the book readable by students those students will also benefit from more than 1 000 carefully crafted exercises

Outstanding Differentiation for Learning in the Classroom

2015-09-16

this volume contains the papers presented at the international conference on mathematics ed ucation in a connected world held from september 16 21 2015 in catania italy the con ference was organized by the mathematics education for the future project an international educational project founded in 1986

International Journal of Mathematical Combinatorics, Volume 2, 2019

2015-05-18

this book constitutes the refereed workshop proceedings of the 16th international conference on algorithms and architectures for parallel processing ica3pp 2016 held in granada spain in december 2016 the 30 full papers presented were carefully reviewed and selected from 58 submissions they cover many dimensions of parallel algorithms and architectures encompassing fundamental theoretical approaches practical experimental projects and commercial components and systems trying to push beyond the limits of existing technologies including experimental efforts innovative systems and investigations that identify weaknesses in existing parallel processing technology

Educational Paths to Mathematics

2019-08-02

this book explores the issue of consumer financial education responding to increased interest in and calls to improve peoples financial literacy skills and abilities to understand and manage their money new conceptual frameworks introduced in the book offer academic audiences an innovative way of thinking about the project on financial literacy education using the concepts of edu regulation and financial knowledge democratisation to analyse the financial education project in the uk the book exposes serious and often ignored limitations to using information and education as tools for consumer protection it challenges the mainstream representation of financial literacy education as a viable solution to consumer financial exclusion and poverty instead it argues that the project on financial literacy education fails to acknowledge important dependences between consumer financial behaviour and the socio economic political and cultural context within which consumers live finally it reveals how these international and national calls for ever greater financial education oversimplify and underestimate the complexity of consumer financial decision making in our modern times

Elementary Mathematical Models: An Accessible Development without Calculus, Second Edition

2015-07-01

this highly regarded textbook provides the definitive account of customer relationship management crm concepts applications and technologies focusing on how companies can create and maintain mutually beneficial relationships with customers readers will gain a thorough understanding of the conceptual foundations of crm see crm in practice through illustrative case examples and exercises and understand how to organise customer data gathering analysis and presentation for decision making the book achieves these outcomes by first considering strategic crm before moving into operational crm and finally onto analytical aspects of crm the fifth edition has been fully updated to include a series of new case examples to illustrate crm within various regional and industrial contexts including those relevant to large medium and small enterprises a series of new exercises and discussion questions to help readers understand crm concepts and to support pedagogical processes particularly in higher education environments a greater emphasis on managerial applications of crm through new content to help guide managers an updated account of new and emerging technologies relevant to crm expanded coverage of customer experience cx customer engagement ce and customer journey management cjm customer relationship management is essential reading for advanced undergraduate and postgraduate students studying crm sales management customer experience management and relationship marketing as well as executives who oversee crm functions online resources include an instructor s manual chapter by chapter powerpoint slides and a bank of exam questions

The Mathematics Education for the Future Project. Proceedings of the 13th International Conference Mathematics Education in a Connected World

2016-11-30

this monograph provides a comprehensive introduction to the kazhdan lusztig theory of cells in the broader context of the unequal parameter case serving as a useful reference the present volume offers a synthesis of significant advances made since lusztig s seminal work on the subject was published in 2002 the focus lies on the combinatorics of the partition into cells for general coxeter groups with special attention given to induction methods cellular maps and the role of lusztig s conjectures using only algebraic and combinatorial methods the author carefully develops proofs discusses open conjectures and presents recent research including a chapter on the action of the cactus group kazhdan lusztig cells with unequal parameters will appeal to graduate students and researchers interested in related subject areas such as lie theory representation theory and combinatorics of coxeter groups useful examples and various exercises make this book suitable for self study and use alongside lecture courses information for readers the character mathbb z has been corrupted in the print edition of this book and appears incorrectly with a diagonal line running through the symbol

Algorithms and Architectures for Parallel Processing

2017-06-26

this book constitutes the refereed proceedings of the 22nd international conference on information and software technologies icist 2016 held in druskininkai lithuania in october 2016 the 61 papers presented were carefully reviewed and selected from 158 submissions the papers are organized in topical sections on information systems business intelligence for information and software systems software engineering information technology applications

Financial Literacy Education

2024-01-23

a collaborative series with the university of cambridge faculty of education highlighting leading edge research across teacher education international education reform and language education

Customer Relationship Management

2018-05-07

Kazhdan-Lusztig Cells with Unequal Parameters

2016-09-29

Information and Software Technologies

2015-03-05

Literacy as Numbers Teacher's Book

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