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Differential Geometry Of Curves And Surfaces With Singularities Oswaal CBSE Question Bank Class 9 Hindi A, English, Math, Science & Social Science (Set of 5 Books) (For 2022-23 Exam) *Oswaal CBSE Question Bank Class 9 Hindi B, English, Math, Science & Social Science (Set of 5 Books) (For 2022-23 Exam)* **The Joy of SET International Perspectives on Mathematics Curriculum** *The Language Issue in the Teaching of Mathematics in South Africa* Mathematics Teaching and Professional Learning in sub-Sahara Africa **Landscape of 21st Century Mathematics** *Basic Math and Pre-Algebra For Dummies* **Financial Education for Youth The Role of Schools Contemporary Computational Mathematics - A Celebration of the 80th Birthday of Ian Sloan** Improving Primary Mathematics Education, Teaching and Learning Was Ist Mathematik? **The Five Practices in Practice [Elementary] Mathematical Modelling Education in East and West Common Sense Mathematics** Me n Mine CPM Maths Combo Class 09 Holomorphic Curves in Low Dimensions **Education Systems Around the World** *Global Ideologies Surrounding Children's Rights and Social Justice Raising the Impact of Education Research in Africa* **The Mathematics Education for the Future Project. Proceedings of the 13th International Conference Mathematics Education in a Connected World** Mathematical Methods in Image Processing and Inverse Problems Spectrum Math Workbook, Grade K Research for Educational Change **Beyond Traditional Probabilistic Data Processing Techniques: Interval, Fuzzy etc. Methods and Their Applications Early mathematics counts Human rights in diverse education contexts** *Invited Lectures from the 13th International Congress on Mathematical Education Sustaining Quality Teaching and Learning to Instil Good Discipline and Academic Performance Maths Made Easy Transversals in Linear Uniform Hypergraphs Lectures On Convex Sets (Second Edition)* **Multilingual Education Yearbook 2021** Caught in the Act General Galois Geometries **Creative Activities and Curriculum for Young Children Common Core Language Arts and Math, Grade 2 Modular Forms and Related Topics in Number Theory Building the Foundation: Whole Numbers in the Primary Grades**

Mathematics Teaching and Professional Learning in sub-Sahara Africa Apr 27 2022 The book represents a crop of wide-ranging research conducted by renown scholars in sub-Sahara Africa revolving around mathematics teaching and professional development programs for mathematics teachers. The research-based proposals and actual how-to-conduct professional development initiatives that enhance effective mathematics instruction are rooted in teacher input and informed by learners' errors and misconceptions. The book provides a comprehensive snapshot on mathematics teaching, learning and effective professional development programmes for mathematics teachers in sub-Sahara Africa. It is the only research output that advances and disseminates issues of mathematics education and research in the region with input from South Africa, Kenya, Rwanda, Uganda, Malawi, Namibia, Lesotho, Ethiopia and Zimbabwe.

Global Ideologies Surrounding Children's Rights and Social Justice Mar 15 2021 Social rights are a pivotal concern for all of society, including today's population of children. The study of the rights, or lack thereof, that children have must be undertaken to ensure that future generations are thriving members of their communities. Global Ideologies Surrounding Children's Rights and Social Justice highlights the trials and tribulations that children have often had to overcome to be considered true citizens of their communities. Featuring comprehensive coverage on a wide range of applicable topics such as child abuse, socio-economic rights, social injustice, and welfare issues, this is a critical reference source for educators, academicians, students, and researchers interested in

studying new approaches for the social advancement of children.

Creative Activities and Curriculum for Young Children Sep 28 2019 CREATIVE ACTIVITIES AND CURRICULUM FOR YOUNG CHILDREN, 11th Edition, is filled with fun, creative, and easy-to implement activities for young children. You'll be encouraged to exercise your own creativity as well as learn how to help young children do the same. Hundreds of activities, up-to-date research, recipes, finger plays, information on how to select children's books, and more make this book an invaluable resource for you and others planning to work creatively with children across the curriculum. This is a book you'll want to use throughout your professional career. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Mathematical Modelling Education in East and West Aug 20 2021 This book documents ongoing research and theorizing in the sub-field of mathematics education devoted to the teaching and learning of mathematical modelling and applications. Mathematical modelling provides a way of conceiving and resolving problems in people's everyday lives as well as sophisticated new problems for society at large. Mathematical tradition in China that emphasizes algorithm and computation has now seen a renaissance in mathematical modelling and applications where China has made significant progress with its economy, science and technology. In recent decades, teaching and learning of mathematical modelling as well as contests in mathematical modelling have been flourishing at different levels of education in China. Today, teachers and researchers in China become keener to learn from their colleagues from Western countries and other parts of the world in research and teaching of mathematical modelling and applications. The book provides a dialogue and communication between colleagues from across the globe with new impetus and resources for mathematical modelling education and its research in both West and East with new ideas on modelling teaching and practices, inside and outside classrooms. All authors of this book are members of the International Community of Teachers of Mathematical Modelling and Applications (ICTMA), the peak research body into researching the teaching, assessing and learning of mathematical modelling at all levels of education from the early years to tertiary education as well as in the workplace. The book is of interest to researchers, mathematics educators, teacher educators, education administrators, policy writers, curriculum developers, professional developers, in-service teachers and pre-service teachers including those interested in mathematical literacy.

Modular Forms and Related Topics in Number Theory Jul 27 2019 This book collects the papers presented at the Conference on Number Theory, held at the Kerala School of Mathematics, Kozhikode, Kerala, India, from December 10–14, 2018. The conference aimed at bringing the active number theorists and researchers in automorphic forms and allied areas to demonstrate their current research works. This book benefits young research scholars, postdoctoral fellows, and young faculty members working in these areas of research.

Transversals in Linear Uniform Hypergraphs Mar 03 2020 This book gives the state-of-the-art on transversals in linear uniform hypergraphs. The notion of transversal is fundamental to hypergraph theory and has been studied extensively. Very few articles have discussed bounds on the transversal number for linear hypergraphs, even though these bounds are integral components in many applications. This book is one of the first to give strong non-trivial bounds on the transversal number for linear hypergraphs. The discussion may lead to further study of those problems which have not been solved completely, and may also inspire the readers to raise new questions and research directions. The book is written with two readerships in mind. The first is the graduate student who may wish to work on open problems in the area or is interested in exploring the field of transversals in hypergraphs. This exposition will go far to familiarize the student with the subject, the research techniques, and the major accomplishments in the field. The photographs included allow the reader to associate faces with several researchers who made important discoveries and contributions to the subject. The second audience is the established researcher in hypergraph theory who will benefit from having easy access to known results and latest developments in the field of transversals in linear hypergraphs.

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Early mathematics counts Aug 08 2020 This occasional paper examines common instructional strategies in early-grade mathematics interventions through a review of studies in classrooms in low- and middle-income countries. Twenty-four studies met the criteria for inclusion, and analyses reveal four sets of instructional strategies for which there is evidence from multiple contexts. Of the 24 studies, 16 involved the use of multiple representations, 10 involved the use of developmental progressions, 6 included supporting student use of explanation and justification, and 5 included integration of informal mathematics. Based on the review, we provide conclusions and recommendations for future research and policy

Spectrum Math Workbook, Grade K Nov 10 2020 Spectrum Math for kindergarten keeps kids at the top of their math game using progressive practice, math in everyday settings, and tests to monitor progress. The standards-based math workbook covers addition, subtraction, shapes, and basic measurement. A best-selling series for well over 15 years, Spectrum still leads the way because it works. It works for parents who want to give their child a leg up in math. It works for teachers who want their students to meet—and surpass—learning goals. And it works to help children build confidence and advance their skills. No matter what subject or grade, Spectrum provides thorough practice and focused instruction to support student success.

The Joy of SET Jul 31 2022 "Have you ever played the addictive card game SET? Have you ever wondered about the connections between games and mathematics? . . . The Joy of SET takes readers on a fascinating journey into this seemingly simple card game and reveals its surprisingly deep and diverse mathematical dimensions. Absolutely no mathematical background is necessary to enjoy this book - all you need is a sense of curiosity and adventure. Originally invented in 1974 by Marsha Falco and officially released in 1991, SET has gained a widespread, loyal following. SET's eighty-one cards consist of one, two, or three symbols of different shapes (diamond, oval, squiggle), shadings (solid, striped, open), and colors (green, purple, red). In order to win, players must identify 'sets' of three cards for which each characteristic is the same - or different - on all the cards. SET's strategic and unique design opens connections to a plethora of mathematical disciplines, including geometry, modular arithmetic, combinatorics, probability, linear algebra, and computer simulations. The Joy of SET looks at these areas as well as avenues for further mathematical exploration. As the authors show, the relationship between SET and mathematics runs in both directions - playing this game has generated new mathematics, and the math has led to new questions about the game itself."-- Provided by publisher.

Raising the Impact of Education Research in Africa Feb 11 2021 The low demonstrable effect of education research done in South Africa in particular – and Africa in general – continues to be a problem in scientific records in the educational sciences. This scholarly collected work addresses this obstacle and focuses on recommendations from scholars in different sectorial categories in the field of education. Scholars from a variety of sub-fields within the educational sciences reflect on this particular matter, revisiting the history of research and research outcomes and offering informed recommendations based on in-depth investigation and analysis of aspects of the various discourses within the relevant sub-fields. The scope of the content of this collected work centres on the issue of the lack of scientific records concerning the scientific raising of the impact of education research. The book aims at making a specific contribution to the educational sciences by stimulating scholarly discussion around how to increase the recording of the significance of educational research done in Africa, and in South Africa in particular, and to redirect the research agenda into the direction of making more impact. Impact is conceptualised to mean both scholarly impact (that is being cited and being used as foundation for theory building and for further research) and practical impact (that is improvement of practice, teaching and learning in education institutions at all levels).

The Five Practices in Practice [Elementary] Sep 20 2021 Take a deep dive into the five practices for facilitating productive mathematical discussions Enhance your fluency in the five practices—anticipating, monitoring, selecting, sequencing, and connecting—to bring powerful discussions of mathematical concepts to life in your elementary classroom. This book unpacks the five practices for deeper understanding and empowers you to use each practice effectively. • Video

excerpts vividly illustrate the five practices in action in real elementary classrooms • Key questions help you set learning goals, identify high-level tasks, and jumpstart discussion • Prompts guide you to be prepared for and overcome common challenges Includes planning templates, sample lesson plans and completed monitoring tools, and mathematical tasks.

Holomorphic Curves in Low Dimensions May 17 2021 This monograph provides an accessible introduction to the applications of pseudoholomorphic curves in symplectic and contact geometry, with emphasis on dimensions four and three. The first half of the book focuses on McDuff's characterization of symplectic rational and ruled surfaces, one of the classic early applications of holomorphic curve theory. The proof presented here uses the language of Lefschetz fibrations and pencils, thus it includes some background on these topics, in addition to a survey of the required analytical results on holomorphic curves. Emphasizing applications rather than technical results, the analytical survey mostly refers to other sources for proofs, while aiming to provide precise statements that are widely applicable, plus some informal discussion of the analytical ideas behind them. The second half of the book then extends this program in two complementary directions: (1) a gentle introduction to Gromov-Witten theory and complete proof of the classification of uniruled symplectic 4-manifolds; and (2) a survey of punctured holomorphic curves and their applications to questions from 3-dimensional contact topology, such as classifying the symplectic fillings of planar contact manifolds. This book will be particularly useful to graduate students and researchers who have basic literacy in symplectic geometry and algebraic topology, and would like to learn how to apply standard techniques from holomorphic curve theory without dwelling more than necessary on the analytical details. This book is also part of the Virtual Series on Symplectic Geometry http://www.springer.com/series/16019

Building the Foundation: Whole Numbers in the Primary Grades Jun 25 2019 This twenty-third ICMI Study addresses for the first time mathematics teaching and learning in the primary school (and pre-school) setting, while also taking international perspectives, socio-cultural diversity and institutional constraints into account. One of the main challenges of designing the first ICMI primary school study of this kind is the complex nature of mathematics at the early level. Accordingly, a focus area that is central to the discussion was chosen, together with a number of related questions. The broad area of Whole Number Arithmetic (WNA), including operations and relations and arithmetic word problems, forms the core content of all primary mathematics curricula. The study of this core content area is often regarded as foundational for later mathematics learning. However, the principles and main goals of instruction on the foundational concepts and skills in WNA are far from universally agreed upon, and practice varies substantially from country to country. As such, this study presents a meta-level analysis and synthesis of what is currently known about WNA, providing a useful base from which to gauge gaps and shortcomings, as well as an opportunity to learn from the practices of different countries and contexts.

Human rights in diverse education contexts Jul 07 2020 The focus of this publication is on answering the central research question: How can Human Rights be advanced with regard to different kinds of diversities, and in different educational settings? The publication pays special attention to the advancement of human rights in a variety of education-related contexts, in keeping with human rights as a declared national priority for both society at large and the education system. One strategic priority of the Faculty of Education is research based on market requirements and needs. This book strives towards meeting this expectation by directly aiming at building human rights and social justice in the South African society, public schools and higher education institutions. Adjudication in the education context of the constitutional values of dignity, equality and freedom focusses regularly on learners. The book highlights the value of education for full-fledged citizenship by delineating what schooling should entail to inspire learners towards both claiming equal freedoms and rights and taking accountability for the responsibilities attached to citizenship.

Education Systems Around the World Apr 15 2021 This book, "Education Systems Around the World", is a collection of reviewed and relevant research chapters that offer a comprehensive overview of recent developments in the field of social sciences and humanities. The book comprises

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single chapters authored by various researchers and edited by an expert active in the field of social studies and humanities. All chapters are unique but are united under a common research study topic. This publication aims to provide a thorough overview of the latest research efforts by international authors on social studies and humanities, and open new possible research paths for further novel developments.

Basic Math and Pre-Algebra For Dummies Feb 23 2022 Basic Math & Pre-Algebra For Dummies, 2nd Edition (9781118791981) is now being published as Basic Math & Pre-Algebra For Dummies, 2nd Edition (9781119293637). While this version features an older Dummies cover and design, the content is the same as the new release and should not be considered a different product. Tips for simplifying tricky basic math and pre-algebra operations Whether you're a student preparing to take algebra or a parent who wants or needs to brush up on basic math, this fun, friendly guide has the tools you need to get in gear. From positive, negative, and whole numbers to fractions, decimals, and percents, you'll build necessary math skills to tackle more advanced topics, such as imaginary numbers, variables, and algebraic equations. Explanations and practical examples that mirror today's teaching methods Relevant cultural vernacular and references Standard For Dummies materials that match the current standard and design Basic Math & Pre-Algebra For Dummies takes the intimidation out of tricky operations and helps you get ready for algebra!

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The Language Issue in the Teaching of Mathematics in South Africa May 29 2022 The book is the result of a five-year project that culminated (within the first three years) in doctoral research interrogating language competency for meaningful mathematics instruction at upper primary level conducted at University of Stellenbosch in 2017; and this book in the succeeding two years. The initial research project received countrywide coverage in several South African media outlets including Times Live and Radio 2000.

Maths Made Easy Apr 03 2020 Simple, logical and colour-coded notes with step-by-step examples. Covers the fundamentals of grade 12 mathematics and complements the material in any class text.

Beyond Traditional Probabilistic Data Processing Techniques: Interval, Fuzzy etc. Methods and Their Applications Sep 08 2020 Data processing has become essential to modern civilization. The original data for this processing comes from measurements or from experts, and both sources are subject to uncertainty. Traditionally, probabilistic methods have been used to process uncertainty. However, in many practical situations, we do not know the corresponding probabilities: in measurements, we often only know the upper bound on the measurement errors; this is known as interval uncertainty. In turn, expert estimates often include imprecise (fuzzy) words from natural language such as "small"; this is known as fuzzy uncertainty. In this book, leading specialists on interval, fuzzy, probabilistic uncertainty and their combination describe state-of-the-art developments in their research areas. Accordingly, the book offers a valuable guide for researchers and practitioners interested in data processing under uncertainty, and an introduction to the latest trends and techniques in this area, suitable for graduate students.

Financial Education for Youth The Role of Schools Jan 25 2022 This publication addresses the challenges linked to the introduction of financial education in schools, provides practical guidance and case studies to assist policy makers, as well as a comparative analysis of existing learning

frameworks.

Common Sense Mathematics Jul 19 2021 Common Sense Mathematics is a text for a one semester college-level course in quantitative literacy. The text emphasizes common sense and common knowledge in approaching real problems through popular news items and finding useful mathematical tools and frames with which to address those questions. We asked ourselves what we hoped our students would remember about this course in ten year's time. From that ten year perspective thoughts about syllabus–"what topics should we cover?"–seemed much too narrow. What matters more is our wish to change the way our students' minds work–the way they approach a problem, or, more generally, the way they approach the world. Most people "skip the numbers" in newspapers, magazines, on the web and (more importantly) even in financial information. We hope that in ten years our students will follow the news, confident in their ability to make sense of the numbers they find there and in their daily lives. Most quantitative reasoning texts are arranged by mathematical topics to be mastered. Since the mathematics is only a part of what we hope students learn, we've chosen another strategy. We look at real life stories that can be best understood with careful reading and a little mathematics.

Mathematical Methods in Image Processing and Inverse Problems Dec 12 2020 This book contains eleven original and survey scientific research articles arose from presentations given by invited speakers at International Workshop on Image Processing and Inverse Problems, held in Beijing Computational Science Research Center, Beijing, China, April 21–24, 2018. The book was dedicated to Professor Raymond Chan on the occasion of his 60th birthday. The contents of the book cover topics including image reconstruction, image segmentation, image registration, inverse problems and so on. Deep learning, PDE, statistical theory based research methods and techniques were discussed. The state-of-the-art developments on mathematical analysis, advanced modeling, efficient algorithm and applications were presented. The collected papers in this book also give new research trends in deep learning and optimization for imaging science. It should be a good reference for researchers working on related problems, as well as for researchers working on computer vision and visualization, inverse problems, image processing and medical imaging.

The Mathematics Education for the Future Project. Proceedings of the 13th International Conference Mathematics Education in a Connected World Jan 13 2021 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.

Me n Mine CPM Maths Combo Class 09 Jun 17 2021 The series is a comprehensive package containing chapter wise and topic wise guidelines with a vast variety of solved and unsolved exercises to help students practice what they have learnt. These books are strictly in accordance with the latest CBSE syllabus and covers all aspects of formative and summative assessments with the latest marking schemes as laid down by CBSE.

General Galois Geometries Oct 29 2019 This book is the second edition of the third and last volume of a treatise on projective spaces over a finite field, also known as Galois geometries. This volume completes the trilogy comprised of plane case (first volume) and three dimensions (second volume). This revised edition includes much updating and new material. It is a mostly self-contained study of classical varieties over a finite field, related incidence structures and particular point sets in finite n-dimensional projective spaces. General Galois Geometries is suitable for PhD students and researchers in combinatorics and geometry. The separate chapters can be used for courses at postgraduate level.

Differential Geometry Of Curves And Surfaces With Singularities Nov 03 2022 This book provides a unique and highly accessible approach to singularity theory from the perspective of differential geometry of curves and surfaces. It is written by three leading experts on the interplay between two important fields — singularity theory and differential geometry.The book introduces singularities and their recognition theorems, and describes their applications to geometry and

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topology, restricting the objects of attention to singularities of plane curves and surfaces in the Euclidean 3-space. In particular, by presenting the singular curvature, which originated through research by the authors, the Gauss-Bonnet theorem for surfaces is generalized to those with singularities. The Gauss-Bonnet theorem is intrinsic in nature, that is, it is a theorem not only for surfaces but also for 2-dimensional Riemannian manifolds. The book also elucidates the notion of Riemannian manifolds with singularities.These topics, as well as elementary descriptions of proofs of the recognition theorems, cannot be found in other books. Explicit examples and models are provided in abundance, along with insightful explanations of the underlying theory as well. Numerous figures and exercise problems are given, becoming strong aids in developing an understanding of the material.Readers will gain from this text a unique introduction to the singularities of curves and surfaces from the viewpoint of differential geometry, and it will be a useful guide for students and researchers interested in this subject.

Common Core Language Arts and Math, Grade 2 Aug 27 2019 Help second grade students master Common Core skills such as understanding point of view, forming contractions and possessives, counting by 5s, and more with Common Core Language Arts and Math Spectrum workbooks. Take the mystery out of the Common Core with these unique and timely Spectrum 128-page workbooks. These information-packed resources for kindergarten through grade 6 provide an overview of the standards for each grade level along with practice activities for school success. Includes explicit references to the standards on each practice page that will let parents know that activities provide direct support for skills being taught at school.

Sustaining Quality Teaching and Learning to Instil Good Discipline and Academic Performance May 05 2020 This book presents an engaging as well as inspiring array of issues and insights drawn from the perspective of dialogic imagination aimed at quality teaching and learning experiences. The authors passionately uphold their belief that the prevalence of good discipline and good academic performance are mutually interrelated and if these two prevail in the ecosphere of any classroom, these can significantly enrich and enhance the quality of learning in any school settings. Based on this, South Africa has made huge strides towards improving the quality of education and people's lives. However, discipline and academic performance still lag behind, due to the lack of quality teaching, which also prevents the Department of Education from accomplishing its objectives. Ironically, this takes place at a time when the government has resolved to prioritise education, among other important developmental issues. To this effect, this book explores how quality teaching and learning can ensure that discipline and academic performance prevail. It shows that quality teaching and learning have the potential to determine discipline and academic performance; particularly now that other disciplinary measures have been seen to be ineffective. It is framed theoretically by the school improvement theory supported by Radical Constructivism and Critical Realism, and uses case studies to highlight its findings. The book shows that quality teaching and learning can free human potential and ensure that it is developed in line with democratic ideals, and identifies the environment as playing an important role in ascertaining whether or not quality teaching and learning can determine discipline and academic performance in schools.

Contemporary Computational Mathematics - A Celebration of the 80th Birthday of Ian Sloan Dec 24 2021 This book is a tribute to Professor Ian Hugh Sloan on the occasion of his 80th birthday. It consists of nearly 60 articles written by international leaders in a diverse range of areas in contemporary computational mathematics. These papers highlight the impact and many achievements of Professor Sloan in his distinguished academic career. The book also presents state of the art knowledge in many computational fields such as quasi-Monte Carlo and Monte Carlo methods for multivariate integration, multi-level methods, finite element methods, uncertainty quantification, spherical designs and integration on the sphere, approximation and interpolation of multivariate functions, oscillatory integrals, and in general in information-based complexity and tractability, as well as in a range of other topics. The book also tells the life story of the renowned mathematician, family man, colleague and friend, who has been an inspiration to many of us. The reader may especially enjoy the story from the perspective of his family, his wife, his daughter and

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son, as well as grandchildren, who share their views of Ian. The clear message of the book is that Ian H. Sloan has been a role model in science and life.

Landscape of 21st Century Mathematics Mar 27 2022 Landscape of 21st Century Mathematics offers a detailed cross section of contemporary mathematics. Important results of the 21st century are motivated and formulated, providing an overview of recent progress in the discipline. The theorems presented in this book have been selected among recent achievements whose statements can be fully appreciated without extensive background. Grouped by subject, the selected theorems represent all major areas of mathematics: number theory, combinatorics, analysis, algebra, geometry and topology, probability and statistics, algorithms and complexity, and logic and set theory. The presentation is self-contained with context, background and necessary definitions provided for each theorem, all without sacrificing mathematical rigour. Where feasible, brief indications of the main ideas of a proof are given. Rigorous yet accessible, this book presents an array of breathtaking recent advances in mathematics. It is written for everyone with a background in mathematics, from inquisitive university students to mathematicians curious about recent achievements in areas beyond their own.

Research for Educational Change Oct 10 2020 Research for Educational Change presents ways in which educational research can fulfil its commitments to educational practice. Focussing its discussion within the context of mathematics education, it argues that while research-generated insights can have beneficial effects on learning and teaching, the question of how these effects are to be generated and sustained is far from evident. The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice. In the first part of the book, four teams of researchers use different methodologies while analysing the same corpus of data, collected in a South African mathematics classroom. In the second part, each of these teams makes a specific proposal about what can be done and how so that its research-generated insights have a tangible, beneficial impact on what is happening in mathematical classrooms. Combining two discourses – that of researchers speaking to one another, and that of researchers communicating their insights to those responsible for educational practice – the book deals with the perenial question of communication between those who study educational processes and those who are directly responsible for teacher education, educational research and classroom practices. This book will be key reading for postgraduates, researchers and academics in education and particularly in the areas of mathematics education, education research, teacher education and classroom practice. It will also appeal to teacher educators, practitioners and undergraduate students interested in educational research.

Improving Primary Mathematics Education, Teaching and Learning Nov 22 2021 This book focuses on how to improve the teaching and learning of primary level mathematics education within resource-constrained contexts. It builds on two large numeracy projects within South Africa which speak to broader, global concerns and highlight how research and development not only enables one to meet ethical imperatives but also explore how further interventions can be developed. Teacher and research communities must work together to create mutually beneficial relationships and establish a cohesive understanding of the requirements of primary mathematics education.

Lectures On Convex Sets (Second Edition) Jan 31 2020 The book provides a self-contained and systematic treatment of algebraic and topological properties of convex sets in the n-dimensional Euclidean space. It benefits advanced undergraduate and graduate students with various majors in mathematics, optimization, and operations research. It may be adapted as a primary book or an additional text for any course in convex geometry or convex analysis, aimed at non-geometers. It can be a source for independent study and a reference book for researchers in academia.The second edition essentially extends and revises the original book. Every chapter is rewritten, with many new theorems, examples, problems, and bibliographical references included. It contains three new chapters and 100 additional problems with solutions.

International Perspectives on Mathematics Curriculum Jun 29 2022 Curriculum can be defined in a variety of ways. It might be viewed as a body of knowledge, a product, or a process. Curricula

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can differ as they are conceptualized from various theoretical perspectives to address the needs of teachers, students, and the context of schooling. One reason to study curriculum is "to reveal the expectations, processes and outcomes of students' school learning experiences that are situated in different cultural and system contexts. ... further studies of curriculum practices and changes are much needed to help ensure the success of educational reforms in the different cultural and system contexts" (Kulm & Li, 2009, p. 709). This volume highlights international perspectives on curriculum and aims to broaden the wider mathematics education community's understandings of mathematics curriculum through viewing a variety of ways that curricula are developed, understood, and implemented in different jurisdictions/countries. Within this volume, we define curriculum broadly as the set of mathematics standards or outcomes, the messages inherent in mathematics curriculum documents and resources, how these standards are understood by a variety of stakeholders, and how they are enacted in classrooms. The focus is on the written, implied, and enacted curriculum in various educational settings throughout the world.

Caught in the Act Nov 30 2019 The research reported in Caught in the Act draws together the insights gained from a continuous professional development initiative for high school mathematics teachers, teaching in low socio-economic status and socially challenged environments in South Africa. The chapters show the possibilities for enhancing achievement in school mathematics if a strength-based approach is adopted to develop teaching with teachers and when their concerns are taken seriously. The book demonstrates that the ecological relevance – fitness for the context in which teachers are teaching – of the "goods" developed and distributed by initiatives should be a major consideration to offer hope for sustainable implementation to improve school mathematics education. The book is of interest to mathematics teachers, school leaders, mathematics curriculum advisors, policy makers and researchers.

Invited Lectures from the 13th International Congress on Mathematical Education Jun 05 2020 The book presents the Invited Lectures given at 13th International Congress on Mathematical Education (ICME-13). ICME-13 took place from 24th- 31st July 2016 at the University of Hamburg in Hamburg (Germany). The congress was hosted by the Society of Didactics of Mathematics (Gesellschaft für Didaktik der Mathematik - GDM) and took place under the auspices of the International Commission on Mathematical Instruction (ICMI). ICME-13 – the biggest ICME so far - brought together about 3500 mathematics educators from 105 countries, additionally 250 teachers from German speaking countries met for specific activities. The scholars came together to share their work on the improvement of mathematics education at all educational levels.. The papers present the work of prominent mathematics educators from all over the globe and give insight into the current discussion in mathematics education. The Invited Lectures cover a wide spectrum of topics, themes and issues and aim to give direction to future research towards educational improvement in the teaching and learning of mathematics education. This book is of particular interest to researchers, teachers and curriculum developers in mathematics education.

Was Ist Mathematik? Oct 22 2021 Mit einem Vorwort von Stefan Hildebrandt

Multilingual Education Yearbook 2021 Jan 01 2020 This edited book attempts to foreground how challenges and complexities between policy and practice intertwine in the teaching and learning of the STEM subjects in multilingual settings, and how they (policy and practice) impact on educational processes, developments and outcomes. The unique feature of this book, thus, lies in its combination of not just language issues in the teaching and learning of the STEM subjects, but also in how these issues relate to policy and practice in multilingual contexts and how STEM research and practice may inform and shape language policies and their implementation in multilingual contexts. This book is of interest to stakeholders involved in STEM education such as researchers, undergraduate and graduate students, tertiary level teachers, teacher educators, curriculum developers as well as other professionals with responsibilities in STEM education subjects. The book is written in a way that is accessible to a wide range of backgrounds, including those who are in language education.

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