

# Mathematics Paper 1 September Eastern Cape 2013

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**Geostatistical Methods for Reservoir Geophysics** Leonardo Azevedo 2017-04-07 This book presents a geostatistical framework for data integration into subsurface Earth modeling. It offers extensive geostatistical background information, including detailed descriptions of the main geostatistical tools traditionally used in Earth related sciences to infer the spatial distribution of a given property of interest. This framework is then directly linked with applications in the oil and gas industry and how it can be used as the basis to simultaneously integrate geophysical data (e.g. seismic reflection data) and well-log data into reservoir modeling and characterization. All of the cutting-edge methodologies presented here are first approached from a theoretical point of view and then supplemented by sample applications from real case studies involving different geological scenarios and different challenges. The book offers a valuable resource for students who are interested in learning more about the fascinating world of geostatistics and reservoir modeling and characterization. It offers them a deeper understanding of the main geostatistical concepts and how geostatistics can be used to achieve better data integration and reservoir modeling.

**Science Education: A Global Perspective** Ben Akpan 2016-08-03 Science Education: A Global Perspective is 'global' both in content and authorship. Its 17 chapters by an assemblage of seasoned and knowledgeable science educators from many parts of the world seek to bring to the fore current developments in science education and their implications. The book thus covers a wide range of topics in science education from various national and international perspectives. These include the nature of science, science and religion, evolution, curriculum and pedagogy, context-based teaching and learning, science and national development, socially-responsible science education, equitable access for women and girls in science and technology education, and the benefits of science education research. It ends on an optimistic note by looking at science education in 50 years' time with a recommendation, among others, for stakeholders to take the responsibility of preparing children towards a blossoming science education sector in an anticipated future world. This book is suitable for use by discerning researchers, teachers, undergraduate and postgraduate students in science education, and policy makers at all levels of education. Other educationalists and personnel in science and technology vocations will also find it interesting and useful as the reader-motivated approach has guided the presentation of ideas. Science Education: A Global Perspective is a rich compendium of the components of science education in context, practice, and delivery. Dr Bulent Cavas, Professor of Science Education, Dokuz Eylul Univerity, Buca-Izmir, Turkey/President-Elect, International Council of Associations for Science Education (ICASE) This book will be of immense relevance for current and future global strides in training and research in science education. Surinder K. Ghai, Chairman, Sterling Publishers Pvt. Ltd., New Delhi, India This book provides a refreshing insight into the current status and future direction of science education. It will be very useful to researchers, those pursuing undergraduate and post-graduate courses in science education, and all other personnel involved in the policy and practice of science education. Dr. Bennoit Sossou, Director/Country Representative, UNESCO Regional Office in Abuja, Nigeria

**Applying Mathematics** David N. Burghes 1982

**Mathematical Literacy, Grade 11** Karen Morrison 2012-09-10 Study & Master Mathematical Literacy Grade 11 has been especially developed by an experienced author team according to the Curriculum and Assessment Policy Statement (CAPS). This new and easy-to-use course helps learners to master essential content and skills in Mathematical Literacy. The comprehensive Learner's Book includes: \* thorough coverage of the basic skills topics to lay a sound foundation for the development of knowledge, skills and concepts in Mathematical Literacy \* margin notes to assist learners with new concepts - especially Link boxes, that refer learners to the basic skills topics covered in Term 1, Unit 1-16 \* ample examples with a strong visual input to connect Mathematical Literacy to everyday life.

**Study and Master Mathematics Grade 12 CAPS Study Guide** Noleen Jakins 2013-10-31

**The National Curriculum in England (2020 Update)** Scholastic 2020-09-03 In this UPDATED edition of the National Curriculum for England for Key Stages 1 and 2, you will find full programmes of study for all 11 original primary subjects plus three new subjects: Relationships Education; Relationships and Sex Education; and Health Education (to be taught in English schools in September 2020). The National Curriculum for England sets out the framework for the national curriculum at key stages 1 and 2. This statutory guidance includes information about the school curriculum and the national curriculum the aims for the national curriculum statements on inclusion, and on pupils' competence in numeracy and maths, language and literacy across the school programmes of study for KS 1 and 2 for all the subjects that are taught at these key stages.

**Teaching in Primary Schools in China and India** Nirmala Rao 2013-02-11 This book compares primary education in urban and rural China and India. It focuses on how the sociocultural context including educational policy, educators and parents' beliefs, and the conditions under which teaching and learning occur shape classroom pedagogy and determine children's attainment. This in-depth, authentic, comparative analysis of the two largest educational systems in the world is a must-read for scholars interested in the teaching and learning in these two rapidly developing Asian cultures. A common set of questions has been addressed in diverse contexts. The empirical work on which this book is based is most impressive – videotaping of mathematics and language lessons, interviews with parents and educators questionnaires with parents, teachers and children and tests of children's mathematics attainment – and this done in 3 locations in China, 3 in India and 12 schools in total.

**Multicultural Mathematics** David Nelson 1993 The authors explore ways of helping students understand the universality of mathematics.

**Studies on Large Branchiopod Biology and Conservation** Marie A. Simovich 2013-04-17 This volume is a collection of papers concerning the biology of large branchiopod crustaceans: Anostraca, Conchostraca, and Notostraca. Many of the individual papers were first presented at the Third International Large Branchiopod Symposium (ILBS-3) held at the University of San Diego, CA, USA, July 15-18,

1996. Contributions on additional topics from participants at the symposium, and from colleagues not able to join us in San Diego, are also included. In addition, there is a supplement to the 1995 'Checklist of the Anostraca'. The theme of the ILBS-3 was 'understanding and conserving large branchiopod diversity'. Researchers from around the world presented papers on a variety of topics related to conservation of large branchiopods, with contributions ranging from alpha-taxonomy and zoogeography to community structure and studies of ecology and evolution. One important issue developed in many of the papers in this volume is the need to advance our understanding of basic aspects of branchiopod biology throughout the world in order to enhance our efforts to conserve them. Although we have made important strides in understanding the biology of large branchiopods, we have, with few notable exceptions, made little progress in assuring the conservation of their diversity. We hope this volume will supply the reader with new ideas, and generate enthusiasm for research and public education efforts on behalf of branchiopod conservation.

Cognitive Diagnostic Models: Methods for Practical Applications Tao Xin 2022-05-06

Random Processes for Classical Equations of Mathematical Physics Sergey Ermakov 1989-10-31 'Et moi •.... si j'avait su comment en revenir. One service mathematics has rendered the je n'y serais point alle.' human race. It has put common sense back Jules Verne where it belongs. on the topmost shelf next to the dusty canister labelled 'discarded non- The series is divergent; therefore we may be sense'. able to do something with it Eric T. Bell O. Heaviside Mathematics is a tool for thought. A highly necessary tool in a world where both feedback and non- linearities abound. Similarly, all kinds of parts of mathematics serve as tools for other parts and for other sciences. Applying a simple rewriting rule to the quote on the right above one finds such statements as: 'One service topology has rendered mathematical physics .. .'; 'One service logic has rendered com- puter science .. .'; 'One service category theory has rendered mathematics .. .'. All arguably true. And all statements obtainable this way form part of the raison d'etre of this series.

A Cubed and His Algebra Nancy Albert-Goldberg 2005-01 A3 & HIS ALGEBRA is the true story of a struggling young boy from Chicago's west side who grew to become a force in American mathematics. For nearly 50 years, A. A. Albert thrived at the University of Chicago, one of the world's top centers for algebra. His "pure research" in algebra found its way into modern computers, rocket guidance systems, cryptology, and quantum mechanics, the basic theory behind atomic energy calculations. This first-hand account of the life of a world-renowned American mathematician is written by Albert's daughter. Her memoir, which favors a general audience, offers a personal and revealing look at the multidimensional life of an academic who had a lasting impact on his profession. SOME QUOTATIONS FROM PROFESSOR ALBERT:"There are really few bad students of mathematics. There are, instead, many bad teachers and bad curricula ""The difficulty of learning mathematics is increased by the fact that in so many high schools this very difficult subject is considered to be teachable by those whose major subject is language, botany, or even physical education.""It is still true that in a majority of American universities the way to find the Department of Mathematics is to ask for the location of the oldest and most decrepit building on campus.""The production of a single scientist of first magnitude will have a greater impact on our civilization than the production of fifty mediocre Ph.D.'s.""Freedom is having the time to do research Even in mathematics there are 'fashions'. This doesn't mean that the researcher is controlled by them. Many go their own way, ignoring the fashionable. That's part of the strength of a great university."

Pedagogy in Poverty Ursula Hoadley 2017-08-09 As South Africa transitioned from apartheid to democracy, changes in the political landscape, as well as educational agendas and discourse on both a national and international level, shaped successive waves of curriculum reform over a relatively short period of time. Using South Africa as a germane example of how curriculum and pedagogy can interact and affect educational outcomes, Pedagogy in Poverty explores the potential of curricula to improve education in developing and emerging economies worldwide, and, ultimately, to reduce inequality. Incorporating detailed, empirical accounts of life inside South African classrooms, this book is a much-needed contribution to international debate surrounding optimal curriculum and pedagogic forms for children in poor schools. Classroom-level responses to curriculum policy reforms reveal some implications of the shifts between a radical, progressive approach and traditional curriculum forms. Hoadley focuses on the crucial role of teachers as mediators between curriculum and pedagogy, and explores key issues related to teacher knowledge by examining the teaching of reading and numeracy at the foundational levels of schooling. Offering a data-rich historical sociology of curriculum and pedagogic change, this book will appeal to academics, researchers and postgraduate students in the fields of education, sociology of education, curriculum studies, educational equality and school reform, and the policy and politics of education.

Selected Works of Ellis Kolchin with Commentary Ellis Robert Kolchin 1999 The work of Joseph Fels Ritt and Ellis Kolchin in differential algebra paved the way for exciting new applications in constructive symbolic computation, differential Galois theory, the model theory of fields, and Diophantine geometry. This volume assembles Kolchin's mathematical papers, contributing solidly to the archive on construction of modern differential algebra. This collection of Kolchin's clear and comprehensive papers--in themselves constituting a history of the subject--is an invaluable aid to the student of differential algebra. In 1910, Ritt created a theory of algebraic differential equations modeled not on the existing transcendental methods of Lie, but rather on the new algebra being developed by E. Noether and B. van der Waerden. Building on Ritt's foundation, and deeply influenced by Weil and Chevalley, Kolchin opened up Ritt theory to modern algebraic geometry. In so doing, he led differential geometry in a new direction. By creating differential algebraic geometry and the theory of differential algebraic groups, Kolchin provided the foundation for a ``new geometry" that has led to both a striking and an original approach to arithmetic algebraic geometry. Intriguing possibilities were introduced for a new language for nonlinear differential equations theory. The volume includes commentary by A. Borel, M. Singer, and B. Poizat. Also Buium and Cassidy trace the development of Kolchin's ideas, from his important early work on the differential Galois theory to his later groundbreaking results on the theory of differential algebraic geometry and differential algebraic groups. Commentaries are self-contained with numerous examples of various aspects of differential algebra and its applications. Central topics of Kolchin's work are discussed, presenting the history of differential algebra and exploring how his work grew from and transformed the work of Ritt. New directions of differential algebra are illustrated, outlining important current advances. Prerequisite to understanding the text is a background at the beginning graduate level in algebra, specifically commutative algebra, the theory of field extensions, and Galois theory.

The Sea Island Mathematical Manual Frank J. Swetz 1992 An annotated translation and analysis of the Haidao Suanjing, a Chinese mathematical classic composed by Liu Hui in A.D. 263. All ancient societies practiced the art of land surveying. In fact, tradition tells us that geometry--land measure--had its origins in such surveying. However, an examination of early Western literature reveals few records concerning the practical uses of geometry and mathematics in the tasks of surveying. Recent research into the content and origins of early Chinese mathematics is beginning to reveal the existence of strong traditions and interest in the methodologies and applications of land survey. It is from these Chinese sources that a clearer picture of how people adapted mathematics and geometry to the needs of surveying emerges. The Haidao Suanjing, or Sea Island Mathematical Manual, is one of the "Ten Classics" of traditional Chinese mathematics, and its contents demonstrate the high standards of theoretical and mathematical sophistication present in early Chinese surveying theory. The Haidao established the mathematical procedures for much of East Asian surveying activity for the next one thousand years. The contents of the Haidao also testify to the ability of the Chinese to systematize mathematics and hint at the use of

proof in Chinese mathematics, a concept usually associated with Greek mathematical thought. Frank Swetz provides an analysis of the Haidao's surveying problems. In particular, he details surveying techniques and undertakes a mathematical exposition of the Chinese chong cha solution procedures. The Haidao is a testimony to the ingenuity and skill of China's early surveyors and its author, Liu Hui. This study complements and extends the findings of Swetz's previous book, *Was Pythagoras Chinese? An Examination of Right Triangle Theory in Ancient China*.

**Mathematical Omnibus** D. B. Fuks 2007 The book consists of thirty lectures on diverse topics, covering much of the mathematical landscape rather than focusing on one area. The reader will learn numerous results that often belong to neither the standard undergraduate nor graduate curriculum and will discover connections between classical and contemporary ideas in algebra, combinatorics, geometry, and topology. The reader's effort will be rewarded in seeing the harmony of each subject. The common thread in the selected subjects is their illustration of the unity and beauty of mathematics. Most lectures contain exercises, and solutions or answers are given to selected exercises. A special feature of the book is an abundance of drawings (more than four hundred), artwork by an accomplished artist, and about a hundred portraits of mathematicians. Almost every lecture contains surprises for even the seasoned researcher.

**Social Constructivism as a Philosophy of Mathematics** Paul Ernest 1998-01-01 Extends the ideas of social constructivism to the philosophy of mathematics, developing a powerful critique of traditional absolutist conceptions of mathematics, and proposing a reconceptualization of the philosophy of mathematics.

**Strengthening Forensic Science in the United States** National Research Council 2009-07-29 Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. *Strengthening Forensic Science in the United States: A Path Forward* provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration.

*Strengthening Forensic Science in the United States* gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

**PISA 2012 Assessment and Analytical Framework Mathematics, Reading, Science, Problem Solving and Financial Literacy** OECD 2013-02-11 This book presents the conceptual framework underlying the fifth cycle of PISA, which covers reading, science and this year's focus: mathematical literacy, along with problem solving and financial literacy.

**James Joseph Sylvester** Karen Hunger Parshall 2006-05-17 This text offers a biography of James Joseph Sylvester & his work. A Cambridge student at first denied a degree because of his faith, Sylvester came to America to teach mathematics, becoming Daniel Coit Gilman's faculty recruit at Johns Hopkins in 1876 & winning the coveted Savilian Professorship of Geometry at Oxford in 1883.

**Language in Epistemic Access** Caroline Kerfoot 2018-07-26 This book focuses on how to address persistent linguistically structured inequalities in education, primarily in relation to South African schools, but also in conversation with Australian work and with resonances for other multilingual contexts around the world. The book as a whole lays bare the tension between the commitment to multilingualism enshrined in the South African Constitution and language-in-education policy, and the realities of the dominance of English and the virtual absence of indigenous African languages in current educational practices. It suggests that dynamic plurilingual pedagogies can be allied with the explicit scaffolding of genre-based pedagogies to help redress asymmetries in epistemic access and to re-imagine policies, pedagogies, and practices more in tune with the realities of multilingual classrooms. The contributions to this book offer complementary insights on routes to improving access to school knowledge, especially for learners whose home language or language variety is different to that of teaching and learning at school. All subscribe to similar ideologies which include the view that multilingualism should be seen as a resource rather than a 'problem' in education. Commentaries on these chapters highlight evidence-based high-impact educational responses, and suggest that translanguaging and genre may well offer opportunities for students to expand their linguistic repertoires and to bridge epistemological differences between community and school. This book was originally published as a special issue of *Language and Education*.

**Mathematical Cranks** Underwood Dudley 1992 A delightful collection of articles about people who claim they have achieved the mathematically impossible (squaring the circle, duplicating the cube); people who think they have done something they have not (proving Fermat's Last Theorem); people who pray in matrices; people who find the American Revolution ruled by the number 57; people who have in common eccentric mathematical views, some mild (thinking we should count by 12s instead of 10s), some bizarre (thinking that second-order differential equations will solve all problems of economics, politics and philosophy). This is a truly unique book. It is written with wit and style and is a part of folk mathematics.

**Emerging Technologies for Education** Tien-Chi Huang 2017-12-15 This book constitutes the thoroughly refereed post-workshop proceedings of the Second International Symposium, SETE 2017, held in conjunction with ICWL 2017, Cape Town, South Africa, in September 2017. The 52 full and 13 short papers were carefully reviewed and selected from 123 submissions. This symposium attempts to provide opportunities for the crossfertilization of knowledge and ideas from researchers in diverse fields that make up this interdisciplinary research area.

**Potassic Igneous Rocks and Associated Gold-Copper Mineralization** Daniel Müller 2013-04-17 In recent years, there has been increasing interest from geoscientists in potassic igneous rocks. Academic geoscientists have been interested in their petrogenesis and their potential value in defining the tectonic setting of the terranes into which they were intruded, and exploration geoscientists have become increasingly interested in the association of these rocks with major epithermal gold and porphyry gold-copper deposits. Despite this current interest, there is no comprehensive textbook that deals with these aspects of potassic igneous rocks. This book redresses this situation by elucidating the characteristic features of potassic (high-K) igneous rocks, erecting a hierarchical scheme that allows interpretation of their tectonic setting using whole-rock geochemistry, and investigating their associations with a variety of gold and copper-gold deposits, worldwide. About two thirds of the book is based on a PhD thesis by Dr Daniel Muller which was produced at the Key Centre for Strategic Mineral Deposits within the Department of Geology and Geophysics at The University of Western Australia under the supervision of Professor David Groves, the late Dr Nick Rock, Professor Eugen Stumpf!, Dr Wayne Taylor, and Dr Brendon Griffin. The remainder of the book has been compiled from the literature using the collective experience of the two authors. The book is

dedicated to the memory of Dr Rock who initiated the research project but died before its completion.

Husserl and Realism in Logic and Mathematics Robert S. Tragesser 1984-02-16 Mathematics and logic present crucial cases in deciding whether the world is of our making or whether some form of realism is true. Edmund Husserl, who was initially a mathematician, discusses this general question extensively, but although his views influenced the Dutch intuitionists and were taken very seriously by Gödel, they have not been widely appreciated among analytical philosophers. In this book Robert Tragesser sets out to determine the conditions under which a realist ontology of mathematics and logic might be justified, taking as his starting point Husserl's treatment of these metaphysical problems. He does not aim primarily at an exposition of Husserl's phenomenology, although many of the central claims of phenomenology are clarified here. Rather he exploits its ideas and methods to show how they can contribute to answering Michael Dummett's question 'Realism or Anti-Realism?'. In doing so he makes a challenging and provocative contribution to the debate.

Journal of the Society of Arts 1858

Inconsistent Mathematics C.E. Mortensen 1994-11-30 without a properly developed inconsistent calculus based on infinitesimals, then inconsistent claims from the history of the calculus might well simply be symptoms of confusion. This is addressed in Chapter 5. It is further argued that mathematics has a certain primacy over logic, in that paraconsistent or relevant logics have to be based on inconsistent mathematics. If the latter turns out to be reasonably rich then paraconsistentism is vindicated; while if inconsistent mathematics has serious restrictions then the case for being interested in inconsistency-tolerant logics is weakened. (On such restrictions, see this chapter, section 3. ) It must be conceded that fault-tolerant computer programming (e. g. Chapter 8) finds a substantial and important use for paraconsistent logics, albeit with an epistemological motivation (see this chapter, section 3). But even here it should be noted that if inconsistent mathematics turned out to be functionally impoverished then so would inconsistent databases.

2. Summary In Chapter 2, Meyer's results on relevant arithmetic are set out, and his view that they have a bearing on Gödel's incompleteness theorems is discussed. Model theory for nonclassical logics is also set out so as to be able to show that the inconsistency of inconsistent theories can be controlled or limited, but in this book model theory is kept in the background as much as possible. This is then used to study the functional properties of various equational number theories.

Mathematics of Wave Propagation Julian L. Davis 2000-05-07 Earthquakes, a plucked string, ocean waves crashing on the beach, the sound waves that allow us to recognize known voices. Waves are everywhere, and the propagation and classical properties of these apparently disparate phenomena can be described by the same mathematical methods: variational calculus, characteristics theory, and caustics. Taking a medium-by-medium approach, Julian Davis explains the mathematics needed to understand wave propagation in inviscid and viscous fluids, elastic solids, viscoelastic solids, and thermoelastic media, including hyperbolic partial differential equations and characteristics theory, which makes possible geometric solutions to nonlinear wave problems. The result is a clear and unified treatment of wave propagation that makes a diverse body of mathematics accessible to engineers, physicists, and applied mathematicians engaged in research on elasticity, aerodynamics, and fluid mechanics. This book will particularly appeal to those working across specializations and those who seek the truly interdisciplinary understanding necessary to fully grasp waves and their behavior. By proceeding from concrete phenomena (e.g., the Doppler effect, the motion of sinusoidal waves, energy dissipation in viscous fluids, thermal stress) rather than abstract mathematical principles, Davis also creates a one-stop reference that will be prized by students of continuum mechanics and by mathematicians needing information on the physics of waves.

In the Light of Logic Solomon Feferman 1998 In this collection of essays written over a period of twenty years, Solomon Feferman explains advanced results in modern logic and employs them to cast light on significant problems in the foundations of mathematics. Most troubling among these is the revolutionary way in which Georg Cantor elaborated the nature of the infinite, and in doing so helped transform the face of twentieth-century mathematics. Feferman details the development of Cantorian concepts and the foundational difficulties they engendered. He argues that the freedom provided by Cantorian set theory was purchased at a heavy philosophical price, namely adherence to a form of mathematical platonism that is difficult to support. Beginning with a previously unpublished lecture for a general audience, *Deciding the Undecidable*, Feferman examines the famous list of twenty-three mathematical problems posed by David Hilbert, concentrating on three problems that have most to do with logic. Other chapters are devoted to the work and thought of Kurt Gödel, whose stunning results in the 1930s on the incompleteness of formal systems and the consistency of Cantor's continuum hypothesis have been of utmost importance to all subsequent work in logic. Though Gödel has been identified as the leading defender of set-theoretical platonism, surprisingly even he at one point regarded it as unacceptable. In his concluding chapters, Feferman uses tools from the special part of logic called proof theory to explain how the vast part--if not all--of scientifically applicable mathematics can be justified on the basis of purely arithmetical principles. At least to that extent, the question raised in two of the essays of the volume, *Is Cantor Necessary?*, is answered with a resounding no. This volume of important and influential work by one of the leading figures in logic and the foundations of mathematics is essential reading for anyone interested in these subjects.

Understanding MP3 Martin Ruckert 2005-06-14 MPEG audio coding became popular under the name MP3. It is now the most important means of delivering high quality audio over the internet and will play the lead role in digital movie sound as well as in digital audio broadcast. This book explains the ideas, the concepts, and the implementation of MP3. Reading it requires no special prerequisites, but still, the book is detailed enough to include a fully executable highly efficient MP3 decoding engine. Not only understandable but even enjoyable.

Mathematical Intuitionism Al'bert Grigor'evi\_ Dragalin 1988-12-31 In the area of mathematical logic, a great deal of attention is now being devoted to the study of nonclassical logics. This book intends to present the most important methods of proof theory in intuitionistic logic and to acquaint the reader with the principal axiomatic theories based on intuitionistic logic.

Pappus of Alexandria and the Mathematics of Late Antiquity Serafina Cuomo 2000-03-09 A study of the work of a fourth-century AD mathematician and its cultural setting.

Education in a New South Africa Robert Balfour 2015-09-30 This collection presents new investigations into the role of heritage languages and the correlation between culture and language from a pedagogic and cosmopolitical point of view.

Selected Works of Eberhard Hopf with Commentaries Eberhard Hopf 2002 This work celebrates the work of Eberhard Hopf, a founding father of ergodic theory, a mathematician who produced many beautiful, elegantly written, and now classical, results in integral equations and partial differential equations. Hopf's results remain at the core of these fields, and the title includes Hopf's original mathematical papers, still notable for their elegance and clarity of the writing, with accompanying summaries and commentary by well-known mathematicians. Today, ergodic theory and P.D.E. continue to be active, important areas of mathematics. In this volume the reader will find the roots of many ergodic theory concepts and theorems. Hopf authored fundamental results for P.D.E., such as the maximum principle of elliptic equations and the complete solution of Burger's equation. The familiar properties of elliptic equations were proved for the first time in his earliest work and are included here. His bifurcation theorem, still used over and over again, is a particular gem. The proof of the Wiener-Hopf Theorem is a stunning application of deep analysis. The volume is presented in two main parts. The first section is dedicated to classical papers in analysis and fluid dynamics, and the second to ergodic theory. These works and all the others

in the Selected Works carry commentaries by a stellar group of mathematicians who write of the origin of the problems, the important results that followed. Many a mathematical researcher and graduate student will find these collected works to be an excellent resource.

**Giving Space to African Voices** Zehlia Babaci-Wilhite 2014-08-07 This book sets out to bring voices of the South to the debate on localization of education and makes the case that it should be considered a right in education. Despite all the scientifically-based evidence on the improved quality of education through the use of a local language and local knowledge, English as a language of instruction and “Western” knowledge based curriculum continue to be used at all educational levels in many developing nations. This means that in many African countries, the goal of rights to education is becoming increasingly remote, let alone that of rights in education. With this understanding and with the awareness of the education challenges of millions of children throughout Africa, the authors argue that local curriculum through local languages needs to be valued and to be preserved, and that children need to be prepared for the world in a language that promotes understanding. The authors make a clear case that policy makers are in a position to work towards a quality education for all as part of a more comprehensive right-based approach. We owe it to the children of the South to offer the best quality education possible in order to achieve social justice.

**Platonism and Anti-Platonism in Mathematics** Mark Balaguer 1998 In this deft and vigorous book, Mark Balaguer demonstrates that there are no good arguments for or against mathematical platonism (ie., the view that abstract, or non-spatio-temporal, mathematical objects exist, and that mathematical theories are descriptions of such objects). Balaguer does this by establishing that both platonism and anti-platonism are defensible positions. In Part I, he shows that the former is defensible by introducing a novel version of platonism, which he calls full-blooded platonism, or FBP. He argues that if platonists endorse FBP, they can then solve all of the problems traditionally associated with their view, most notably the two Benacerrafian problems (that is, the epistemological problem and the non-uniqueness problem). In Part II, Balaguer defends anti-platonism (in particular, mathematical fictionalism) against various attacks, chief among them the Quine-Putnam indispensability argument. Balaguer's version of fictionalism bears similarities to Hartry Field's, but the arguments Balaguer uses to defend this view are very different. Parts I and II of this book taken together clearly establish that we do not have any good argument for or against platonism. In Part III, Balaguer extends his conclusions, arguing that it is not simply that we do not currently have any good argument for or against platonism, but that we could never have such an argument, and indeed, that there is no fact of the matter as to whether platonism is correct (ie., whether there exist any abstract objects). This lucid and accessibly written book breaks new ground in its area of engagement and makes vital reading for both specialists and anyone else interested in the philosophy of mathematics or metaphysics in general.

**Lion Hunting & Other Mathematical Pursuits: A Collection of Mathematics, Verse and Stories** Ralph P. Boas Jr. 2020-07-31 In the famous paper of 1938, “A Contribution to the Mathematical Theory of Big Game Hunting”, written by Ralph Boas along with Frank Smithies, using the pseudonym H. Pétard, Boas describes sixteen methods for hunting a lion. This marvelous collection of Boas memorabilia contains not only the original article, but also several additional articles, as late as 1985, giving many further methods. But once you are through with lion hunting, you can hunt through the remainder of the book to find numerous gems by and about this remarkable mathematician. Not only will you find his biography of Bourbaki along with a description of his feud with the French mathematician, but also you will find a lucid discussion of the mean value theorem. There are anecdotes Boas told about many famous mathematicians, along with a large collection of his mathematical verses. You will find mathematical articles like a proof of the fundamental theorem of algebra and pedagogical articles giving Boas' views on making mathematics intelligible.

**The Palgrave International Handbook of Education for Citizenship and Social Justice** Andrew Peterson 2016-10-20 This state-of-the-art, comprehensive Handbook is the first of its kind to fully explore the interconnections between social justice and education for citizenship on an international scale. Various educational policies and practices are predicated on notions of social justice, yet each of these are explicitly or implicitly shaped by, and in turn themselves shape, particular notions of citizenship/education for citizenship. Showcasing current research and theories from a diverse range of perspectives and including chapters from internationally renowned scholars, this Handbook seeks to examine the philosophical, psychological, social, political, and cultural backgrounds, factors and contexts that are constitutive of contemporary research on education for citizenship and social justice and aims to analyse the transformative role of education regarding social justice issues. Split into two sections, the first contains chapters that explore central issues relating to social justice and their interconnections to education for citizenship whilst the second contains chapters that explore issues of education for citizenship and social justice within the contexts of particular nations from around the world. Global in its perspective and definitive in content, this one-stop volume will be an indispensable reference resource for a wide range of academics, students and researchers in the fields of Education, Sociology, Social Policy, Citizenship Studies and Political Science.

**Study and Master Mathematical Literacy Grade 12 CAPS Learner's Book** Karen Morrison 2014-05-01

**Education, Indigenous Knowledges, and Development in the Global South** Anders Breidlid 2013 The book's focus is the hegemonic role of so-called modernist, Western epistemology that spread in the wake of colonialism and the capitalist economic system, and its exclusion and othering of other epistemologies. Through a series of case studies the book discusses how the domination of Western epistemology has had a major impact on the epistemological foundation of the education systems across the globe. The book queries the sustainability of hegemonic epistemology both in the classrooms in the global South as well as in the face of the imminent ecological challenges of our common earth, and discusses whether indigenous knowledge systems would better serve the pupils in the global South and help promote sustainable development.