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The interplay between topology, functions, geometry, and algebra

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listeners the beauty and liveliness of mathematics using the material that is accessible to people with little preliminary knowledge The first chapter of the book talks about the geometry and topology of surfaces Among other topics the authors discuss the Poincar Hopf theorem about critical points of vector fields on surfaces and the Gauss Bonnet theorem about the relation between the curvature and topology Euler characteristics The second chapter addresses various aspects of the concept of dimension including the Peano curve and the Poincar approach to dimension It also discusses the structure of three dimensional manifolds proving in particular that the three dimensional sphere is the union of two doughnuts

Circles, Spheres and Spherical Geometry Hiroshi Maehara,Horst Martini,2024-08-09 This textbook focuses on the geometry of circles spheres and spherical geometry Various classic themes are used as introductory and motivating topics The book begins very simply for the reader in the first chapter discussing the notions of inversion and stereographic projection Here various classical topics and theorems such as Steiner cycles inversion Soddy s hexlet stereographic projection and Poncelet s porism are discussed The book then delves into Bend formulas and the relation of radii of circles focusing on Steiner circles mutually tangent four circles in the plane and other related notions Next some fundamental concepts of graph theory are explained The book then proceeds to explore orthogonal cycle representation of quadrangulations giving detailed discussions of the Brightwell Scheinerman theorem an extension of the Koebe Andreev Thurston theorem Newton s 13 balls problem Casey s theorem an extension of Ptolemy s theorem and its generalizations The remainder of the book is devoted to spherical geometry including a chapter focusing on geometric probability on the sphere The book also contains new results of the authors and insightful notes on the existing literature bringing the reader closer to the research front Each chapter concludes with related exercises of varying levels of difficulty Solutions to selected exercises are provided This book is suitable to be used as textbook for a geometry course or alternatively as basis for a seminar for both advanced undergraduate and graduate students alike **Mathematics Teaching and Professional Learning in sub-Sahara Africa** Kakoma Luneta,2021-12-09 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 **A History of Folding in Mathematics** Michael Friedman,2018-05-25 While it is well known that the Delian problems are impossible to solve with a straightedge and compass for example it is impossible to construct a segment whose length is cube root of 2 with these instruments the discovery of the Italian mathematician

Margherita Beloch Piazzolla in 1934 that one can in fact construct a segment of length cube root of 2 with a single paper fold was completely ignored till the end of the 1980s This comes as no surprise since with few exceptions paper folding was seldom considered as a mathematical practice let alone as a mathematical procedure of inference or proof that could prompt novel mathematical discoveries A few questions immediately arise Why did paper folding become a non instrument What caused the marginalisation of this technique And how was the mathematical knowledge which was nevertheless transmitted and prompted by paper folding later treated and conceptualised Aiming to answer these questions this volume provides for the first time an extensive historical study on the history of folding in mathematics spanning from the 16th century to the 20th century and offers a general study on the ways mathematical knowledge is marginalised disappears is ignored or becomes obsolete In doing so it makes a valuable contribution to the field of history and philosophy of science particularly the history and philosophy of mathematics and is highly recommended for anyone interested in these topics   *Bulletin of the Atomic Scientists* ,1957-05 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world   **Mathematics of Planet Earth** Hans Kaper,Christiane Rousseau,2015-03-31 Our planet faces many challenges In 2013 an international partnership of more than 140 scientific societies research institutes and organizations focused its attention on these challenges This project was called Mathematics of Planet Earth and featured English and French language blogs accessible to nonmathematicians as part of its outreach activities This book is based on more than 100 of the 270 English language blog posts and focuses on four major themes A Planet to Discover A Planet Supporting Life A Planet Organized by Humans A Planet at Risk Source inconnue   **The Development of Gifted and Talented Mathematics Students and the National Council of Teachers of Mathematics Standards** Linda Jensen Sheffield,1994 Reviews research on the characteristics and identification of students displaying mathematical gifts and talents as well as discussing research on the level of mathematical competency of the gifted and talented students in the U S An overview of the Curriculum and Evaluation Professional and Assessment Standards for School Mathematics is included along with recommendations for curriculum teaching and assessment of students showing mathematical talent Specific recommendations for programs teaching strategies resources and alternative means of evaluation are suggested   The History of Mathematics Roger L. Cooke,2011-02-14 This new edition brings the fascinating and intriguing history of mathematics to life The Second Edition of this internationally acclaimed text has been thoroughly revised updated and reorganized to give readers a fresh perspective on the evolution of mathematics Written by one of the world s leading experts on the history of mathematics the book details the key historical developments in the field providing an understanding and appreciation of how mathematics influences today s science art music literature and society In the first edition each chapter was devoted to a single culture This Second Edition is organized by subject matter a general survey of

mathematics in many cultures arithmetic geometry algebra analysis and mathematical inference This new organization enables students to focus on one complete topic and at the same time compare how different cultures approached each topic Many new photographs and diagrams have been added to this edition to enhance the presentation The text is divided into seven parts The World of Mathematics and the Mathematics of the World including the origin and prehistory of mathematics cultural surveys and women mathematicians Numbers including counting calculation ancient number theory and numbers and number theory in modern mathematics Color Plates illustrating the impact of mathematics on civilizations from Egypt to Japan to Mexico to modern Europe Space including measurement Euclidean geometry post Euclidean geometry and modern geometrics Algebra including problems leading to algebra equations and methods and modern algebra Analysis including the calculus real and complex analysis Mathematical Inference including probability and statistics and logic and set theory As readers progress through the text they learn about the evolution of each topic how different cultures devised their own solutions and how these solutions enabled the cultures to develop and progress In addition readers will meet some of the greatest mathematicians of the ages who helped lay the groundwork for today s science and technology The book s lively approach makes it appropriate for anyone interested in learning how the field of mathematics came to be what it is today It can also serve as a textbook for undergraduate or graduate level courses An Instructor s Manual presenting detailed solutions to all the problems in the book is available upon request from the Wiley editorial department   Mathematics and Art Lynn Gamwell,2016 This is a cultural history of mathematics and art from antiquity to the present Mathematicians and artists have long been on a quest to understand the physical world they see before them and the abstract objects they know by thought alone Taking readers on a tour of the practice of mathematics and the philosophical ideas that drive the discipline Lynn Gamwell points out the important ways mathematical concepts have been expressed by artists Sumptuous illustrations of artworks and cogent math diagrams are featured in Gamwell s comprehensive exploration Gamwell begins by describing mathematics from antiquity to the Enlightenment including Greek Islamic and Asian mathematics Then focusing on modern culture Gamwell traces mathematicians search for the foundations of their science such as David Hilbert s conception of mathematics as an arrangement of meaning free signs as well as artists search for the essence of their craft such as Aleksandr Rodchenko s monochrome paintings She shows that self reflection is inherent to the practice of both modern mathematics and art and that this introspection points to a deep resonance between the two fields Kurt G del posed questions about the nature of mathematics in the language of mathematics and Jasper Johns asked What is art in the vocabulary of art Throughout Gamwell describes the personalities and cultural environments of a multitude of mathematicians and artists from Gottlob Frege and Beno t Mandelbrot to Max Bill and Xu Bing Mathematics and Art demonstrates how mathematical ideas are embodied in the visual arts and will enlighten all who are interested in the complex intellectual pursuits personalities and cultural settings that connect these vast disciplines   **PAUL HALMOS**

Celebrating 50 Years of Mathematics John Ewing,F.W. Gehring,2012-12-06 Paul Halmos will celebrate his 75th birthday on the 3rd of March 1991 This volume from colleagues is an expression of affection for the man and respect for his contributions as scholar writer and teacher It contains articles about Paul about the times in which he worked and the places he has been and about mathematics Paul has furthered his profession in many ways and this collection reflects that diversity Articles about Paul are not biographical but rather tell about his ideas his philosophy and his style Articles about the times and places in which Paul has worked describe people events and ways in which Paul has influenced students and colleagues over the past 50 years Articles about mathematics are about all kinds of mathematics including operator theory and Paul s research in the subject This volume represents a slice of mathematical life and it shows how many parts of mathematics Paul has touched It is fitting that this volume has been produced with the support and cooperation of Springer Verlag For over 35 years Paul has contributed to mathematics publishing as founder and editor of many outstanding series **Using History to Teach Mathematics** Victor J. Katz,2000-09-21 This volume examines how the history of mathematics can find application in the teaching of mathematics itself   A Richer Picture of Mathematics David E. Rowe,2018-02-13 Historian David E Rowe captures the rich tapestry of mathematical creativity in this collection of essays from the Years Ago column of The Mathematical Intelligencer With topics ranging from ancient Greek mathematics to modern relativistic cosmology this collection conveys the impetus and spirit of Rowe s various and many faceted contributions to the history of mathematics Centered on the G ttingen mathematical tradition these stories illuminate important facets of mathematical activity often overlooked in other accounts Six sections place the essays in chronological and thematic order beginning with new introductions that contextualize each section The essays that follow recount episodes relating to the section s overall theme All of the essays in this collection with the exception of two appeared over the course of more than 30 years in The Mathematical Intelligencer Based largely on archival and primary sources these vignettes offer unusual insights into behind the scenes events Taken together they aim to show how G ttingen managed to attract an extraordinary array of talented individuals several of whom contributed to the development of a new mathematical culture during the first decades of the twentieth century   *Mathematics* Morris Kline,1982 This work stresses the illogical manner in which mathematics has developed the question of applied mathematics as against pure mathematics and the challenges to the consistency of mathematics logical structure that have occurred in the twentieth century   **Mathematical Cultures** Brendan Larvor,2016-05-25 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 *Selected Writings from the Journal of the Saskatchewan Mathematics Teachers' Society* Egan J Chernoff,Bharath Sriraman,Gale L. Russell,2019-07-01 The teaching and learning of mathematics in Saskatchewan one of three Canadian provinces sharing a border with Montana has a long and storied history An integral part of the past 50 years 1961 2011 of history has been vinculum Journal of the Saskatchewan Mathematics Teachers Society in its many different renditions This monograph which presents ten memorable articles from each of the past five decades i e 50 articles from the past 50 years of the journal provides an opportunity to share this rich history with a wide range of individuals interested in the teaching and learning of mathematics and mathematics education Each decade begins with an introduction providing a historical context and concludes with a decade specific commentary by a prominent member of the Saskatchewan mathematics education community As a result this monograph provides a historical account as well as a contemporary view of many of the trends and issues e g curriculum technology in the teaching and learning of mathematics This book is meant to serve as a resource for a variety of individuals including teachers of mathematics mathematics teacher educators mathematics education researchers historians and undergraduate and graduate students and further as a celebratory retrospective on the work of the Saskatchewan Mathematics Teachers Society **Troubling Notions of Global Citizenship and Diversity in Mathematics Education** Anna Chronaki,Ayşe Yolcu,2025-03-06 This edited volume explores how mathematics education is re configured in relation to its past present and future when the rhetoric of critical global citizenship education is being applied to diverse local settings Drawing upon diverse theoretical and methodological traditions across the globe including countries in South America Asia Australia and Europe each chapter challenges and eventually troubles the wide circulation of a universal imagery of citizenship based on mathematical competence in not only curriculum school reforms and policy but also in teaching and learning practices Troubling the Euro centric and global notions of citizenship and diversity the book foregrounds local practices in mathematics education to portray a broader picture for the current problems of equity social justice and democracy The book also engages with critical discussions on how citizens and noncitizen are being fabricated in the context of educational policies and specific mathematical practices First of its kind to trouble what is at stake when mathematics education is framed within the discourses of citizenship globally through challenging and problematising what is understood as normal this book will be of relevance to scholars academics and researchers in the field of sociology of education anthropology of education philosophy of education mathematics education citizenship studies and international and comparative education *Hands on History* Amy Shell-Gellasch,2007 In an increasingly electronic society these exercises are designed to help school and collegiate educators use historical devices of mathematics to balance the digital side of mathematics

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