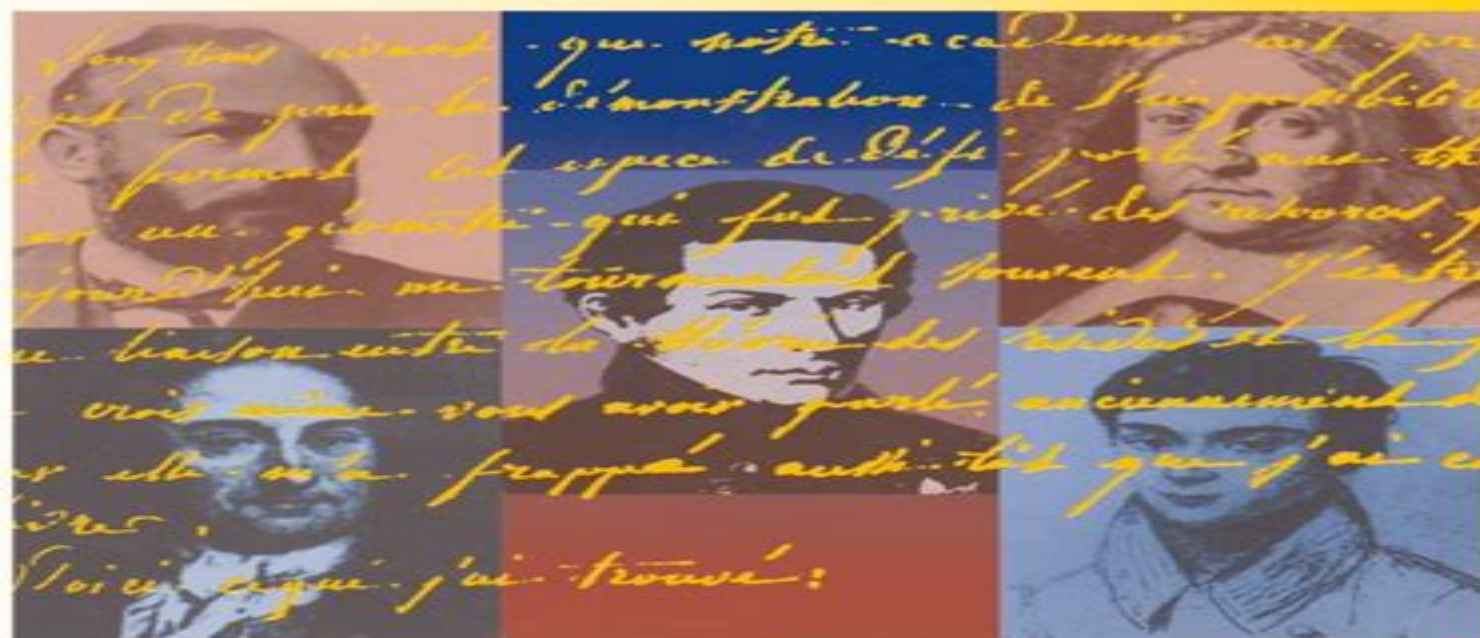


Reinhard Laubenbacher David Pengelley

# MATHEMATICAL EXPEDITIONS

Chronicles by the Explorers



Springer

# Mathematical Expeditions Chronicles By The Explorers

**John McCleary**



### **Mathematical Expeditions Chronicles By The Explorers:**

*Mathematical Expeditions* Reinhard Laubenbacher, David Pengelley, 2000-02-23 The stories of five mathematical journeys into new realms pieced together from the writings of the explorers themselves Some were guided by mere curiosity and the thrill of adventure others by more practical motives In each case the outcome was a vast expansion of the known mathematical world and the realisation that still greater vistas remain to be explored The authors tell these stories by guiding readers through the very words of the mathematicians at the heart of these events providing an insight into the art of approaching mathematical problems The five chapters are completely independent with varying levels of mathematical sophistication and will attract students instructors and the intellectually curious reader By working through some of the original sources and supplementary exercises which discuss and solve or attempt to solve a great problem this book helps readers discover the roots of modern problems ideas and concepts even whole subjects Students will also see the obstacles that earlier thinkers had to clear in order to make their respective contributions to five central themes in the evolution of mathematics

*Mathematical Expeditions* Reinhard Laubenbacher, David Pengelley, 2013-12-01 This book contains the stories of five mathematical journeys into new realms told through the writings of the explorers themselves Some were guided by mere curiosity and the thrill of adventure while others had more practical motives In each case the outcome was a vast expansion of the known mathematical world and the realization that still greater vistas remained to be explored The authors tell these stories by guiding the reader through the very words of the mathematicians at the heart of these events and thereby provide insight into the art of approaching mathematical problems The book can be used in a variety of ways The five chapters are completely independent each with varying levels of mathematical sophistication The book will be enticing to students to instructors and to the intellectually curious reader By working through some of the original sources and supplemental exercises which discuss and solve or attempt to solve a great problem this book helps the reader discover the roots of modern problems ideas and concepts even whole subjects Students will also see the obstacles that earlier thinkers had to clear in order to make their respective contributions to five central themes in the evolution of mathematics

**Mathematical Masterpieces** Art Knoebel, Reinhard Laubenbacher, Jerry Lodder, David Pengelley, 2007-10-16 In introducing his essays on the study and understanding of nature and evolution biologist Stephen J Gould writes We acquire a surprising source of rich and apparently limitless novelty from the primary documents of great thinkers throughout our history But why should any nuggets or even akes be left for intellectual miners in such terrain Hasn't the Origin of Species been read untold millions of times Hasn't every paragraph been subjected to overt scholarly scrutiny and exegesis Let meshareasecretrooted in general human foibles Very few people including authors willing to commit to paper ever really read primary sources certainly not in necessary depth and completion and often not at all I can attest that all major documents of science remain cho full of distinctive and illuminating novelty if only people will study them in full and in the

original editions Why would anyone not yearn to read these works not hunger for the opportunity 99 p 6f It is in the spirit of Gould's insights on an approach to science based on primary texts that we offer the present book of annotated mathematical sources from which our undergraduate students have been learning for more than a decade Although teaching and learning with primary historical sources require a commitment of study the investment yields the rewards of a deeper understanding of the subject an appreciation of its details and a glimpse into the direction research has taken Our students read sequences of primary sources

*Mathematics and Its Connections to the Arts and Sciences (MACAS)* Claus Michelsen, Astrid Beckmann, Viktor Freiman, Uffe Thomas Jankvist, Annie Savard, 2022-12-19 This book celebrates the 15th anniversary of the biannual symposium series Mathematics and its Connections to the Arts and Sciences MACAS which was first held in 2005 following the continued collaboration of an international group of researchers from ICME Topic Study Group 21 The MACAS conferences bring together scientists and educators who are interested in the connection between mathematics arts and science in educational curriculum while emphasizing on as well as researching about the role of mathematics By pooling together these different approaches and viewpoints between mathematics arts and sciences this book reveals possible synergies and paths for collaborations In view of the challenges of the 21st century a modern approach to education with a focus on multi and interdisciplinarity is more important than ever The role of mathematics assumes a key role in this approach as it is connected to all other disciplines such as STEM education physics chemistry biology aesthetics and language and can serve as a bridge between them This book discusses amongst others the curricular approaches to integrate mathematics and other disciplines the importance of mathematical modelling and the interdisciplinarity ways for learning and studying of mathematics as well as the intercultural dimensions of mathematics and mathematics in the digital era All topics will be presented from very different perspectives and regarding very different contexts including digitization culture and sustainability This unique collection will serve as a very valuable and compact source for all above mentioned scientists and educators as well as for use in advanced teacher education courses

*International Handbook of Research in History, Philosophy and Science Teaching* Michael R. Matthews, 2014-07-03 This inaugural handbook documents the distinctive research field that utilizes history and philosophy in investigation of theoretical curricular and pedagogical issues in the teaching of science and mathematics It is contributed to by 130 researchers from 30 countries it provides a logically structured fully referenced guide to the ways in which science and mathematics education is informed by the history and philosophy of these disciplines as well as by the philosophy of education more generally The first handbook to cover the field it lays down a much needed marker of progress to date and provides a platform for informed and coherent future analysis and research of the subject The publication comes at a time of heightened worldwide concern over the standard of science and mathematics education attended by fierce debate over how best to reform curricula and enliven student engagement in the subjects There is a growing recognition among educators and policy makers that the learning of science must dovetail

with learning about science this handbook is uniquely positioned as a locus for the discussion The handbook features sections on pedagogical theoretical national and biographical research setting the literature of each tradition in its historical context It reminds readers at a crucial juncture that there has been a long and rich tradition of historical and philosophical engagements with science and mathematics teaching and that lessons can be learnt from these engagements for the resolution of current theoretical curricular and pedagogical questions that face teachers and administrators Science educators will be grateful for this unique encyclopaedic handbook Gerald Holton Physics Department Harvard University This handbook gathers the fruits of over thirty years research by a growing international and cosmopolitan community Fabio Bevilacqua Physics Department University of Pavia

Guide to Information Sources in Mathematics and Statistics Martha A. Tucker, Nancy D. Anderson, 2004-09-30 This book is a reference for librarians mathematicians and statisticians involved in college and research level mathematics and statistics in the 21st century We are in a time of transition in scholarly communications in mathematics practices which have changed little for a hundred years are giving way to new modes of accessing information Where journals books indexes and catalogs were once the physical representation of a good mathematics library shelves have given way to computers and users are often accessing information from remote places Part I is a historical survey of the past 15 years tracking this huge transition in scholarly communications in mathematics Part II of the book is the bibliography of resources recommended to support the disciplines of mathematics and statistics These are grouped by type of material Publication dates range from the 1800 s onwards Hundreds of electronic resources some online both dynamic and static some in fixed media are listed among the paper resources Amazingly a majority of listed electronic resources are free

Analysis by Its History Ernst Hairer, Gerhard Wanner, 2008-06-02 This book presents first year calculus roughly in the order in which it was first discovered The first two chapters show how the ancient calculations of practical problems led to infinite series differential and integral calculus and to differential equations The establishment of mathematical rigour for these subjects in the 19th century for one and several variables is treated in chapters III and IV Many quotations are included to give the flavor of the history The text is complemented by a large number of examples calculations and mathematical pictures and will provide stimulating and enjoyable reading for students teachers as well as researchers

**Excursions in the History of Mathematics** Israel Kleiner, 2012-02-02 This book comprises five parts The first three contain ten historical essays on important topics number theory calculus analysis and proof respectively Part four deals with several historically oriented courses and Part five provides biographies of five mathematicians who played major roles in the historical events described in the first four parts of the work Excursions in the History of Mathematics was written with several goals in mind to arouse mathematics teachers interest in the history of their subject to encourage mathematics teachers with at least some knowledge of the history of mathematics to offer courses with a strong historical component and to provide an historical perspective on a number of basic topics taught in mathematics courses

**Calculus**

**Deconstructed** Zbigniew H. Nitecki, 2022-01-11 Calculus Deconstructed is a thorough and mathematically rigorous exposition of single variable calculus for readers with some previous exposure to calculus techniques but not to methods of proof This book is appropriate for a beginning Honors Calculus course assuming high school calculus or a bridge course using basic analysis to motivate and illustrate mathematical rigor It can serve as a combination textbook and reference book for individual self study Standard topics and techniques in single variable calculus are presented in context of a coherent logical structure building on familiar properties of real numbers and teaching methods of proof by example along the way Numerous examples reinforce both practical and theoretical understanding and extensive historical notes explore the arguments of the originators of the subject No previous experience with mathematical proof is assumed rhetorical strategies and techniques of proof reductio ad absurdum induction contrapositives etc are introduced by example along the way Between the text and exercises proofs are available for all the basic results of calculus for functions of one real variable

*Proof and Other Dilemmas* Bonnie Gold, Roger A. Simons, 2008 During the first 75 years of the twentieth century almost all work in the philosophy of mathematics concerned foundational questions In the last quarter of the century philosophers of mathematics began to return to basic questions concerning the philosophy of mathematics such as what is the nature of mathematical knowledge and of mathematical objects and how is mathematics related to science Two new schools of philosophy of mathematics social constructivism and structuralism were added to the four traditional views formalism intuitionism logicism and platonism The advent of the computer led to proofs and the development of mathematics assisted by computer and to questions of the role of the computer in mathematics This book of 16 essays all written specifically for this volume is the first to explore this range of new developments in a language accessible to mathematicians Approximately half the essays were written by mathematicians and consider questions that philosophers are not yet discussing The other half written by philosophers of mathematics summarize the discussion in that community during the last 35 years In each case a connection is made to issues relevant to the teach of mathematics

History in Mathematics Education John Fauvel, J.A. van Maanen, 2006-04-11 1 The political context 1 1 1 Introduction 1 1 2 What part does history of mathematics currently occupy in national curricula 2 1 2 1 Argentina 2 1 2 2 Austria 3 1 2 3 Brazil 3 1 2 4 China 4 1 2 5 Denmark 5 1 2 6 France 7 1 2 7 Greece 8 1 2 8 Israel 9 1 2 9 Italy 9 1 2 10 Japan 10 1 2 11 Netherlands 11 1 2 12 New Zealand 12 1 2 13 Norway 14 1 2 14 Poland 15 1 2 15 United Kingdom 16 1 2 16 United States of America 18 1 3 History of mathematics in curricula and schoolbooks a case study of Poland 19 1 3 1 History of mathematics in mathematics curricula 20 1 3 2 History of mathematics in mathematics school books 21 1 3 3 Final remarks 28 1 4 Policy and politics in the advocacy of a historical component 29 1 4 1 Political authorities at all levels 31 1 4 2 Teacher associations 31 1 4 3 Professional mathematics associations 32 1 4 4 Tertiary teachers 32 1 4 5 Parents 33 1 4 6 Textbook authors 33 1 5 Quotations on the use of history of mathematics in mathematics teaching and learning 33 vi 2 Philosophical multicultural and interdisciplinary issues 39 2 1

Introduction 39 2 2 Philosophical issues 40 2 2 1 Historical investigation evidence and interpretation *Crossroads in the History of Mathematics and Mathematics Education* Bharath Sriraman, 2012-07-01 The interaction of the history of mathematics and mathematics education has long been construed as an esoteric area of inquiry Much of the research done in this realm has been under the auspices of the history and pedagogy of mathematics group However there is little systematization or consolidation of the existing literature aimed at undergraduate mathematics education particularly in the teaching and learning of the history of mathematics and other undergraduate topics In this monograph the chapters cover topics such as the development of Calculus through the actuarial sciences and map making logarithms the people and practices behind real world mathematics and fruitful ways in which the history of mathematics informs mathematics education The book is meant to serve as a source of enrichment for undergraduate mathematics majors and for mathematics education courses aimed at teachers

**A Structural Account of Mathematics** Charles S. Chihara, 2004 Charles Chihara's new book develops and defends a structural view of the nature of mathematics and uses it to explain a number of striking features of mathematics that have puzzled philosophers for centuries The view is used to show that in order to understand how mathematical systems are applied in science and everyday life it is not necessary to assume that its theorems either presuppose mathematical objects or are even true Chihara builds upon his previous work in which he presented a new system of mathematics the constructibility theory which did not make reference to or presuppose mathematical objects Now he develops the project further by analysing mathematical systems currently used by scientists to show how such systems are compatible with this nominalistic outlook He advances several new ways of undermining the heavily discussed indispensability argument for the existence of mathematical objects made famous by Willard Quine and Hilary Putnam And Chihara presents a rationale for the nominalistic outlook that is quite different from those generally put forward which he maintains have led to serious misunderstandings *A Structural Account of Mathematics* will be required reading for anyone working in this field

**Shifting the Earth** Arthur Mazer, 2011-09-09 Discover how mathematics and science have propelled history From Ancient Greece to the Enlightenment and then on to modern times *Shifting the Earth The Mathematical Quest to Understand the Motion of the Universe* takes readers on a journey motivated by the desire to understand the universe and the motion of the heavens The author presents a thought provoking depiction of the sociopolitical environment in which some of the most prominent scientists in history lived and then provides a mathematical account of their contributions From Eudoxus to Einstein this fascinating book describes how beginning in ancient times pioneers in the sciences and mathematics have dramatically changed our vision of who we are as well as our place in the universe Readers will discover how Ptolemy's geocentric model evolved into Kepler's heliocentric model with Copernicus as the critical intermediary The author explains how one scientific breakthrough set the stage for the next one and he also places the scientists and their discoveries within the context of history including Archimedes Apollonius and the Punic Wars Ptolemy and the rise of Christianity Copernicus

and the Renaissance Kepler and the Counter Reformation Newton and the Enlightenment Einstein and the detonation of the atom bomb Each chapter presents the work of a single scientist or mathematician building on the previous chapters to demonstrate the evolutionary process of discovery Chapters begin with a narrative section and conclude with a mathematical presentation of one of the scientist's original works Most of these mathematical presentations including the section on Einstein's special relativity are accessible using only basic mathematics however readers can skip the mathematical sections and still follow the evolution of science and mathematics Shifting the Earth is an excellent book for anyone interested in the history of mathematics and how the quest to understand the motion of the heavens has influenced the broader history of humankind

**Infinite Powers** Steven Strogatz, 2019 This is the captivating story of mathematics' greatest ever idea calculus Without it there would be no computers no microwave ovens no GPS and no space travel But before it gave modern man almost infinite powers calculus was behind centuries of controversy competition and even death Taking us on a thrilling journey through three millennia professor Steven Strogatz charts the development of this seminal achievement from the days of Aristotle to today's million dollar reward that awaits whoever cracks Riemann's hypothesis Filled with idiosyncratic characters from Pythagoras to Euler Infinite Powers is a compelling human drama that reveals the legacy of calculus on nearly every aspect of modern civilization including science politics ethics philosophy and much besides

*The Ellipse* Arthur Mazer, 2011-09-26 Explores the development of the ellipse and presents mathematical concepts within a rich historical context The Ellipse features a unique narrative approach when presenting the development of this mathematical fixture revealing its parallels to mankind's advancement from the Counter Reformation to the Enlightenment Incorporating illuminating historical background and examples the author brings together basic concepts from geometry algebra trigonometry and calculus to uncover the ellipse as the shape of a planet's orbit around the sun The book begins with a discussion that tells the story of man's pursuit of the ellipse from Aristarchus to Newton's successful unveiling nearly two millennia later The narrative draws insightful similarities between mathematical developments and the advancement of the Greeks Romans Medieval Europe and Renaissance Europe The author begins each chapter by setting the historical backdrop that is pertinent to the mathematical material that is discussed equipping readers with the knowledge to fully grasp the presented examples and derive the ellipse as the planetary pathway All topics are presented in both historical and mathematical contexts and additional mathematical excursions are clearly marked so that readers have a guidepost for the material's relevance to the development of the ellipse The Ellipse is an excellent book for courses on the history of mathematics at the undergraduate level It is also a fascinating reference for mathematicians engineers or anyone with a general interest in historical mathematics

*Deleuze and the History of Mathematics* Simon Duffy, 2013-05-09 Gilles Deleuze's engagements with mathematics replete in his work rely upon the construction of alternative lineages in the history of mathematics which challenge some of the self-imposed limits that regulate the canonical concepts of the discipline For



Deleuze these challenges provide an opportunity to reconfigure particular philosophical problems for example the problem of individuation and to develop new concepts in response to them The highly original research presented in this book explores the mathematical construction of Deleuze s philosophy as well as addressing the undervalued and often neglected question of the mathematical thinkers who influenced his work In the wake of Alain Badiou s recent and seemingly devastating attack on the way the relation between mathematics and philosophy is configured in Deleuze s work Simon B Duffy offers a robust defence of the structure of Deleuze s philosophy and in particular the adequacy of the mathematical problems used in its construction By reconciling Badiou and Deleuze s seemingly incompatible engagements with mathematics Duffy succeeds in presenting a solid foundation for Deleuze s philosophy rebuffing the recent challenges against it     Lobachevski Illuminated Seth Braver,2011-12-31 Recipient of the Mathematical Association of America s Beckenbach Book Prize in 2015 Lobachevski Illuminated provides an historical introduction to non Euclidean geometry Within its pages readers will be guided step by step through a new translation of Lobachevski s groundbreaking book The Theory of Parallels Extensive commentary situates Lobachevski s work in its mathematical historical and philosophical context thus granting readers a vision of the mysterious and beautiful world of non Euclidean geometry as seen through the eyes of one of its discoverers Although Lobachevski s 170 year old text is challenging to read on its own Seth Braver s carefully arranged illuminations render this classic accessible to any modern reader student professional or layman undaunted by high school mathematics     **Journey through Mathematics** Enrique A. González-Velasco,2011-08-08 This book offers an accessible and in depth look at some of the most important episodes of two thousand years of mathematical history Beginning with trigonometry and moving on through logarithms complex numbers infinite series and calculus this book profiles some of the lesser known but crucial contributors to modern day mathematics It is unique in its use of primary sources as well as its accessibility a knowledge of first year calculus is the only prerequisite But undergraduate and graduate students alike will appreciate this glimpse into the fascinating process of mathematical creation The history of math is an intercontinental journey and this book showcases brilliant mathematicians from Greece Egypt and India as well as Europe and the Islamic world Several of the primary sources have never before been translated into English Their interpretation is thorough and readable and offers an excellent background for teachers of high school mathematics as well as anyone interested in the history of math     **Geometry from a Differentiable Viewpoint** John McCleary,2013 A thoroughly revised second edition of a textbook for a first course in differential modern geometry that introduces methods within a historical context

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