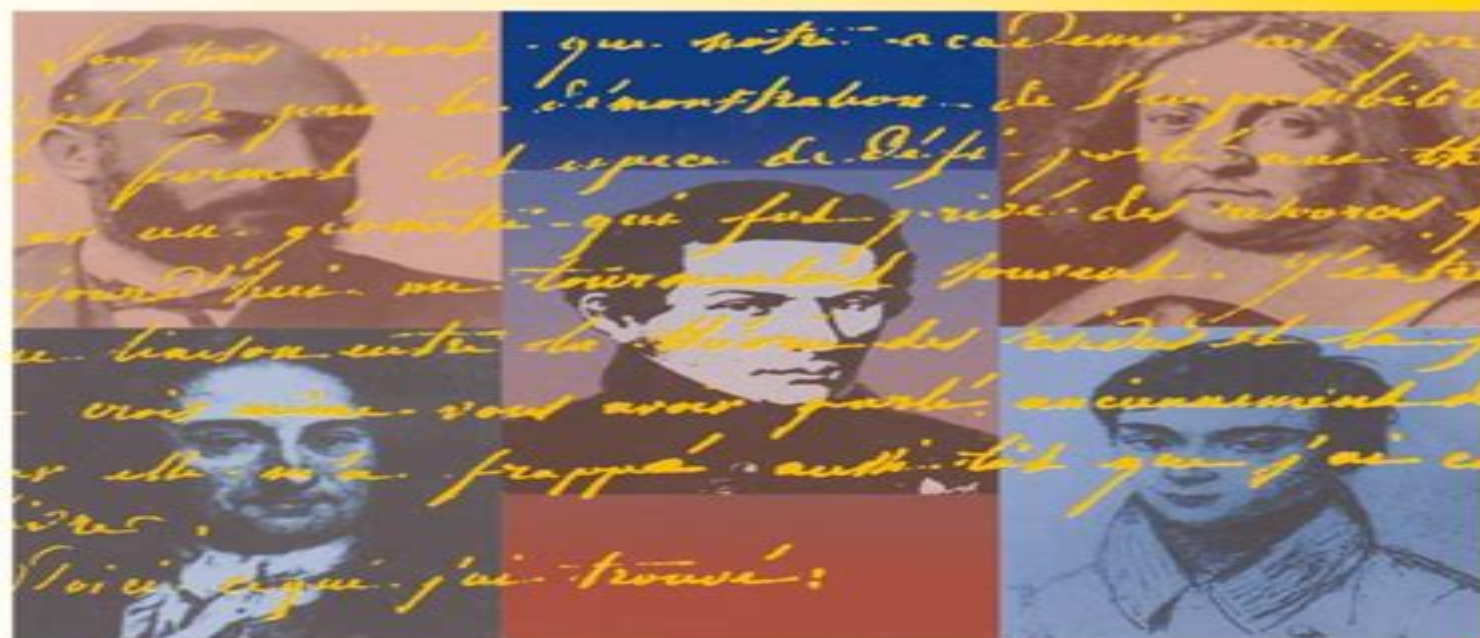


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MATHEMATICAL EXPEDITIONS

Chronicles by the Explorers



Springer

Mathematical Expeditions Chronicles By The Explorers Undergraduate Texts In Mathematics

Zbigniew H. Nitecki



Mathematical Expeditions Chronicles By The Explorers Undergraduate Texts In Mathematics:

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

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

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

Number Theory Through the Eyes of Sophie Germain David Pengelley,2023-06-29 Number Theory Through the Eyes of Sophie Germain An Inquiry Course is an innovative textbook for an introductory number theory course Sophie Germain 1776 1831 was largely self taught in mathematics and two centuries ago in solitude devised and implemented a plan to prove Fermat s Last Theorem We have only recently completely understood this work from her unpublished letters and manuscripts David Pengelley has been a driving force in unraveling this mystery and here he masterfully guides his readers along a path of discovery Germain because of her circumstances as the first woman to do important original mathematical research was forced to learn most of what we now include in an undergraduate number theory course for herself Pengelley has taken excerpts of her writings and those of others and by asking his readers to decipher them skillfully leads us through an inquiry based course in elementary number theory It is a detective story on multiple levels What is Sophie Germain thinking What do her mathematical writings mean How do we understand what she knew and what she was trying to do where she succeeded and where she didn t Number Theory Through the Eyes of Sophie Germain is simultaneously a masterpiece of historical scholarship a guide to reading and teaching from primary source historical documents an inquiry based textbook for introductory number theory and the riveting story of a major but still unappreciated mathematician Work is required of the reader Readers are carefully guided to discover and prove almost all results for themselves in a sequence of scaffolded exploratory tasks with hints fully integrated with the narrative The difficulty of the inquiry tasks varies considerably but the author provides the reader with appropriately helpful guidance at every step An introductory number theory course taught with this text would be a remarkable potentially life changing experience Stephen Kennedy Carleton College and MAA Press

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

Letmeshareasecretrooted ingeneralhumanfoibles Veryfew 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

The Heritage of Thales W.S. Anglin, J. Lambek, 2012-12-06 This is intended as a textbook on the history philosophy and foundations of mathematics primarily for students specializing in mathematics but we also wish to welcome interested students from the sciences humanities and education We have attempted to give approximately equal treatment to the three subjects history philosophy and mathematics History We must emphasize that this is not a scholarly account of the history of mathematics but rather an attempt to teach some good mathematics in a historical context Since neither of the authors is a professional historian we have made liberal use of secondary sources We have tried to give referenced facts and opinions However considering that this text erences for developed by repeated revisions from lecture notes of two courses given by one of us over a 25 year period some attributions may have been lost We could not resist retelling some amusing anecdotes even when we suspect that they have no proven historical basis As to the mathematicians listed in our account we admit to being colour and gender blind we have not attempted a balanced distribution of the mathematicians listed to meet today's standards of political correctness Philosophy Both authors having wide philosophical interests this text contains perhaps more philosophical asides than other books on the history of mathematics For example we discuss the relevance to mathematics of the pre Socratic philosophers and of Plato Aristotle Leibniz and Russell We also have vi Preface presented some original insights

Calculus Two Francis J. Flanigan, Jerry L. Kazdan, 1998-11-06 Calculus and linear algebra are two dominant themes in contemporary mathematics and its applications The aim of this book is to introduce linear algebra in an intuitive geometric setting as the study of linear maps and to use these simpler linear functions to study more complicated nonlinear functions In this way many of the ideas techniques and formulas in the calculus of several variables are clarified and understood in a more conceptual way After using this text a student should be well prepared for subsequent advanced courses in both algebra and linear differential equations as well as the many applications where linearity and its interplay

with nonlinearity are significant This second edition has been revised to clarify the concepts Many exercises and illustrations have been included to make the text more usable for students

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

Mathematics: A Concise History and Philosophy W.S. Anglin, 2012-12-06 This is a concise introductory textbook for a one semester 40 class course in the history and philosophy of mathematics It is written for mathematics majors philosophy students history of science students and future secondary school mathematics teachers The only prerequisite is a solid command of precalculus mathematics On the one hand this book is designed to help mathematics majors acquire a philosophical and cultural understanding of their subject by means of doing actual mathematical problems from different eras On the other hand it is designed to help philosophy history and education students come to a deeper understanding of the mathematical side of culture by means of writing short essays The way I myself teach the material students are given a choice between mathematical assignments and more historical or philosophical assignments Some sample assignments and tests are found in an appendix to this book This book differs from standard textbooks in several ways First it is shorter and thus more accessible to students who have trouble coping with vast amounts of reading Second there are many detailed explanations of the important mathematical procedures actually used by famous mathematicians giving more mathematically talented students a greater opportunity to learn the history and philosophy by way of problem solving

Representation Theory William Fulton, Joe Harris, 1991-10-22 Introducing finite dimensional representations of Lie groups and Lie algebras this example oriented book works from representation theory of finite groups through Lie groups and Lie algebras to the finite dimensional representations of the classical groups

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

Problems in Analytic Number Theory Maruti Ram Murty, 2001 This book gives a problem solving approach to the difficult subject of analytic number theory It is primarily aimed at graduate and senior undergraduate students The goal is to give a rapid introduction of how analytic methods are used to study the distribution of prime numbers The book also includes an introduction to p adic analytic methods It is ideal for a first course in analytic number theory

Numbers and Geometry John Stillwell, 2012-12-06 NUMBERS AND GEOMETRY is a beautiful and relatively elementary account of a part of mathematics where three main fields algebra analysis and geometry meet The aim of this book is to give a broad view of

these subjects at the level of calculus without being a calculus or a pre calculus book Its roots are in arithmetic and geometry the two opposite poles of mathematics and the source of historic conceptual conflict The resolution of this conflict and its role in the development of mathematics is one of the main stories in the book The key is algebra which brings arithmetic and geometry together and allows them to flourish and branch out in new directions Stillwell has chosen an array of exciting and worthwhile topics and elegantly combines mathematical history with mathematics He believes that most of mathematics is about numbers curves and functions and the links between these concepts can be suggested by a thorough study of simple examples such as the circle and the square This book covers the main ideas of Euclid geometry arithmetic and the theory of real numbers but with 2000 years of extra insights attached NUMBERS AND GEOMETRY presupposes only high school algebra and therefore can be read by any well prepared student entering university Moreover this book will be popular with graduate students and researchers in mathematics because it is such an attractive and unusual treatment of fundamental topics Also it will serve admirably in courses aimed at giving students from other areas a view of some of the basic ideas in mathematics There is a set of well written exercises at the end of each section so new ideas can be instantly tested and reinforced

Introduction to Calculus and Classical Analysis Omar Hijab, 2007-05-15 Intended for an honors calculus course or for an introduction to analysis this is an ideal text for undergraduate majors since it covers rigorous analysis computational dexterity and a breadth of applications The book contains many remarkable features complete avoidance of epsilon delta arguments by using sequences instead definition of the integral as the area under the graph while area is defined for every subset of the plane complete avoidance of complex numbers heavy emphasis on computational problems applications from many parts of analysis e g convex conjugates Cantor set continued fractions Bessel functions the zeta functions and many more 344 problems with solutions in the back of the book *Theory of Complex Functions* Reinhold Remmert, 2012-12-06 A lively and vivid look at the material from function theory including the residue calculus supported by examples and practice exercises throughout There is also ample discussion of the historical evolution of the theory biographical sketches of important contributors and citations in the original language with their English translation from their classical works Yet the book is far from being a mere history of function theory and even experts will find a few new or long forgotten gems here Destined to accompany students making their way into this classical area of mathematics the book offers quick access to the essential results for exam preparation Teachers and interested mathematicians in finance industry and science will profit from reading this again and again and will refer back to it with pleasure

The Pleasures of Probability Richard Isaac, 2013-11-11 The ideas of probability are all around us Lotteries casino gambling the all most non stop polling which seems to mold public policy more and more these are a few of the areas where principles of probability impinge in a direct way on the lives and fortunes of the general public At a more removed level there is modern science which uses probability and its offshoots like statistics and the theory of random processes to build mathematical descriptions

of the real world In fact twentieth century physics in embracing quantum mechanics has a world view that is at its core probabilistic in nature contrary to the deterministic one of classical physics In addition to all this muscular evidence of the importance of probability ideas it should also be said that probability can be lots of fun It is a subject where you can start thinking about amusing interesting and often difficult problems with very little mathematical background In this book I wanted to introduce a reader with at least a fairly decent mathematical background in elementary algebra to this world of probability to the way of thinking typical of probability and the kinds of problems to which probability can be applied I have used examples from a wide variety of fields to motivate the discussion of concepts

Problems in Analytic Number Theory U.S.R. Murty, 2013-06-29 In order to become proficient in mathematics or in any subject writes Andre Weil the student must realize that most topics involve only a small number of basic ideas After learning these basic concepts and theorems the student should drill in routine exercises by which the necessary reflexes in handling such concepts may be acquired There can be no real understanding of the basic concepts of a mathematical theory without an ability to use them intelligently and apply them to specific problems Weil's insightful observation becomes especially important at the graduate and research level It is the viewpoint of this book Our goal is to acquaint the student with the methods of analytic number theory as rapidly as possible through examples and exercises Any landmark theorem opens up a method of attacking other problems Unless the student is able to sift out from the mass of theory the underlying techniques his or her understanding will only be academic and not that of a participant in research The prime number theorem has given rise to the rich Tauberian theory and a general method of Dirichlet series with which one can study the asymptotics of sequences It has also motivated the development of sieve methods We focus on this theme in the book We also touch upon the emerging Selberg theory in Chapter 8 and p -adic analytic number theory in Chapter 10 *Mathematical Reviews*, 1999

An Introduction to Mathematical Cryptography Jeffrey Hoffstein, Jill Pipher, J.H. Silverman, 2008-12-15

The creation of public key cryptography by Diffie and Hellman in 1976 and the subsequent invention of the RSA public key cryptosystem by Rivest Shamir and Adleman in 1978 are watershed events in the long history of secret communications It is hard to overestimate the importance of public key cryptosystems and their associated digital signature schemes in the modern world of computers and the Internet This book provides an introduction to the theory of public key cryptography and to the mathematical ideas underlying that theory Public key cryptography draws on many areas of mathematics including number theory abstract algebra probability and information theory Each of these topics is introduced and developed in sufficient detail so that this book provides a self-contained course for the beginning student The only prerequisite is a first course in linear algebra On the other hand students with stronger mathematical backgrounds can move directly to cryptographic applications and still have time for advanced topics such as elliptic curve pairings and lattice reduction algorithms

Among the many facets of modern cryptography this book chooses to concentrate primarily on public key cryptosystems and digital

signature schemes This allows for an in depth development of the necessary mathematics quired for both the construction of these schemes and an analysis of their security The reader who masters the material in this book will not only be well prepared for further study in cryptography but will have acquired a real understanding of the underlying mathematical principles on which modern cryptography is based

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