

Bernhard Riemann

1826–1866



Turning Points in the Conception of Mathematics

Detlef Laugwitz

*Translated by
Abe Shenitzer*

Birkhäuser

Bernhard Riemann 1826 1866 Turning Points In The Conception Of Mathematics

Martin H Krieger



Bernhard Riemann 1826-1866 Turning Points In The Conception Of Mathematics:

Bernhard Riemann 1826-1866 Detlef Laugwitz, 2009-06-08 The name of Bernard Riemann is well known to mathematicians and physicists around the world His name is indelibly stamped on the literature of mathematics and physics This remarkable work rich in insight and scholarship is addressed to mathematicians physicists and philosophers interested in mathematics It seeks to draw those readers closer to the underlying ideas of Riemann's work and to the development of them in their historical context This illuminating English language version of the original German edition will be an important contribution to the literature of the history of mathematics

Bernhard Riemann, 1826-1866 Detlef Laugwitz, 1999 This book originally written in German and presented here in an English language translation is the first attempt to examine Riemann's scientific work from a single unifying perspective Laugwitz describes Riemann's development of a conceptual approach to mathematics at a time when conventional algorithmic thinking dictated that formulas and figures rigid constructs and transformations of terms were the only legitimate means of studying mathematical objects David Hilbert gave prominence to the Riemannian principle of utilizing thought not calculation to achieve proofs Hermann Weyl interpreted the Riemann principle for mathematics and physics alike to be a matter of understanding the world through its behavior in the infinitely small This remarkable work rich in insight and scholarship is addressed to mathematicians physicists and philosophers interested in mathematics It seeks to draw those readers closer to the underlying ideas of Riemann's work and to the development of them in their historical context This illuminating English language version of the original German edition will be an important contribution to the literature of the history of mathematics

Turning Points in the History of Mathematics Hardy Grant, Israel Kleiner, 2016-04-15 This book explores some of the major turning points in the history of mathematics ranging from ancient Greece to the present demonstrating the drama that has often been a part of its evolution Studying these breakthroughs transitions and revolutions their stumbling blocks and their triumphs can help illuminate the importance of the history of mathematics for its teaching learning and appreciation Some of the turning points considered are the rise of the axiomatic method most famously in Euclid and the subsequent major changes in it for example by David Hilbert the wedding via analytic geometry of algebra and geometry the taming of the infinitely small and the infinitely large the passages from algebra to algebras from geometry to geometries and from arithmetic to arithmetics and the revolutions in the late nineteenth and early twentieth centuries that resulted from Georg Cantor's creation of transfinite set theory The origin of each turning point is discussed along with the mathematicians involved and some of the mathematics that resulted Problems and projects are included in each chapter to extend and increase understanding of the material Substantial reference lists are also provided *Turning Points in the History of Mathematics* will be a valuable resource for teachers of and students in courses in mathematics or its history The book should also be of interest to anyone with a background in mathematics who wishes to learn more about the important moments in its development

Doing Mathematics: Convention,

Subject, Calculation, Analogy (2nd Edition) Martin H Krieger, 2015-01-15 Doing Mathematics discusses some ways mathematicians and mathematical physicists do their work and the subject matters they uncover and fashion The conventions they adopt the subject areas they delimit what they can prove and calculate about the physical world and the analogies they discover and employ all depend on the mathematics what will work out and what won't The cases studied include the central limit theorem of statistics the sound of the shape of a drum the connections between algebra and topology and the series of rigorous proofs of the stability of matter The many and varied solutions to the two dimensional Ising model of ferromagnetism make sense as a whole when they are seen in an analogy developed by Richard Dedekind in the 1880s to algebraicize Riemann's function theory by Robert Langlands program in number theory and representation theory and by the analogy between one dimensional quantum mechanics and two dimensional classical statistical mechanics In effect we begin to see an identity in a manifold presentation of profiles as the phenomenologists would say This second edition deepens the particular examples it describes the practical role of mathematical rigor it suggests what might be a mathematician's philosophy of mathematics and it shows how an ugly first proof or derivation embodies essential features only to be appreciated after many subsequent proofs Natural scientists and mathematicians trade physical models and abstract objects remaking them to suit their needs discovering new roles for them as in the recent case of the Painlevé transcendents the Tracy Widom distribution and Toeplitz determinants And mathematics has provided the models and analogies the ordinary language for describing the everyday world the structure of cities or God's infinitude

[A Transition to Advanced Mathematics](#) William Johnstone, Alex McAllister, 2009-07-27 Preface 1 Mathematical Logic 2 Abstract Algebra 3 Number Theory 4 Real Analysis 5 Probability and Statistics 6 Graph Theory 7 Complex Analysis Answers to Questions Answers to Odd Numbered Questions Index of Online Resources Bibliography Index

[Mathematics in Victorian Britain](#) photographer and broadcaster Foreword by Dr Adam Hart-Davis, 2011-09-29 During the Victorian era industrial and economic growth led to a phenomenal rise in productivity and invention That spirit of creativity and ingenuity was reflected in the massive expansion in scope and complexity of many scientific disciplines during this time with subjects evolving rapidly and the creation of many new disciplines The subject of mathematics was no exception and many of the advances made by mathematicians during the Victorian period are still familiar today matrices vectors Boolean algebra histograms and standard deviation were just some of the innovations pioneered by these mathematicians This book constitutes perhaps the first general survey of the mathematics of the Victorian period It assembles in a single source research on the history of Victorian mathematics that would otherwise be out of the reach of the general reader It charts the growth and institutional development of mathematics as a profession through the course of the 19th century in England Scotland Ireland and across the British Empire It then focuses on developments in specific mathematical areas with chapters ranging from developments in pure mathematical topics such as geometry algebra and logic to Victorian work in the applied side of the subject including statistics calculating

machines and astronomy Along the way we encounter a host of mathematical scholars some very well known such as Charles Babbage James Clerk Maxwell Florence Nightingale and Lewis Carroll others largely forgotten but who all contributed to the development of Victorian mathematics

The Poincare Conjecture Donal O'Shea, 2009-05-26 Henri Poincaré was one of the greatest mathematicians of the late nineteenth and early twentieth century He revolutionized the field of topology which studies properties of geometric configurations that are unchanged by stretching or twisting The Poincaré conjecture lies at the heart of modern geometry and topology and even pertains to the possible shape of the universe The conjecture states that there is only one shape possible for a finite universe in which every loop can be contracted to a single point Poincaré's conjecture is one of the seven millennium problems that bring a one million dollar award for a solution Grigory Perelman a Russian mathematician has offered a proof that is likely to win the Fields Medal the mathematical equivalent of a Nobel prize In August 2006 He also will almost certainly share a Clay Institute millennium award In telling the vibrant story of The Poincaré Conjecture Donal O'Shea makes accessible to general readers for the first time the meaning of the conjecture and brings alive the field of mathematics and the achievements of generations of mathematicians whose work have led to Perelman's proof of this famous conjecture

Hidden Harmony—Geometric Fantasies Umberto Bottazzini, Jeremy Gray, 2013-06-21 This book is a history of complex function theory from its origins to 1914 when the essential features of the modern theory were in place It is the first history of mathematics devoted to complex function theory and it draws on a wide range of published and unpublished sources In addition to an extensive and detailed coverage of the three founders of the subject Cauchy Riemann and Weierstrass it looks at the contributions of authors from d'Alembert to Hilbert and Laplace to Weyl Particular chapters examine the rise and importance of elliptic function theory differential equations in the complex domain geometric function theory and the early years of complex function theory in several variables Unique emphasis has been devoted to the creation of a textbook tradition in complex analysis by considering some seventy textbooks in nine different languages The book is not a mere sequence of disembodied results and theories but offers a comprehensive picture of the broad cultural and social context in which the main actors lived and worked by paying attention to the rise of mathematical schools and of contrasting national traditions The book is unrivaled for its breadth and depth both in the core theory and its implications for other fields of mathematics It documents the motivations for the early ideas and their gradual refinement into a rigorous theory

Beyond Geometry Peter Pesic, 2007-01-01 Eight essays trace seminal ideas about the foundations of geometry that led to the development of Einstein's general theory of relativity This is the only English language collection of these important papers some of which are extremely hard to find Contributors include Helmholtz Klein Clifford Poincaré and Cartan

The Calculus of Complex Functions William Johnston, 2022-04-01 The book introduces complex analysis as a natural extension of the calculus of real valued functions The mechanism for doing so is the extension theorem which states that any real analytic function extends to an analytic function defined in a region of the complex plane

The connection to real functions and calculus is then natural The introduction to analytic functions feels intuitive and their fundamental properties are covered quickly As a result the book allows a surprisingly large coverage of the classical analysis topics of analytic and meromorphic functions harmonic functions contour integrals and series representations conformal maps and the Dirichlet problem It also introduces several more advanced notions including the Riemann hypothesis and operator theory in a manner accessible to undergraduates The last chapter describes bounded linear operators on Hilbert and Banach spaces including the spectral theory of compact operators in a way that also provides an excellent review of important topics in linear algebra and provides a pathway to undergraduate research topics in analysis The book allows flexible use in a single semester full year or capstone course in complex analysis Prerequisites can range from only multivariate calculus to a transition course or to linear algebra or real analysis There are over one thousand exercises of a variety of types and levels Every chapter contains an essay describing a part of the history of the subject and at least one connected collection of exercises that together comprise a project level exploration

Mathematical Evolutions Abe Shenitzer, John Stillwell, 2020-08-03

The Universe in Zero Words Dana Mackenzie, 2013-08-25 Most popular books about science and even about mathematics tiptoe around equations as if they were something to be hidden from the reader's tender eyes Dana Mackenzie starts from the opposite premise He celebrates equations No history of art would be complete without pictures Why then should a history of mathematics the universal language of science keep the masterpieces of the subject hidden behind a veil The Universe in Zero Words tells the history of twenty four great and beautiful equations that have shaped mathematics science and society from the elementary $1+1=2$ to the sophisticated the Black Scholes formula for financial derivatives and from the famous $E=mc^2$ to the arcane Hamilton's quaternion equations Mackenzie who has been called a popular science ace by Booklist magazine lucidly explains what each equation means who discovered it and how and how it has affected our lives Illustrated in color throughout the book tells the human and often surprising stories behind the invention or discovery of the equations from how a bad cigar changed the course of quantum mechanics to why whales if they could communicate with us would teach us a totally different concept of geometry At the same time the book shows why these equations have something timeless to say about the universe and how they do it with an economy zero words that no other form of human expression can match The Universe in Zero Words is the ultimate introduction and guide to equations that have changed the world

The Mind of the Mathematician Michael Fitzgerald, Ioan James, 2007-07-16 An intriguing look at the psychology and personality of mathematicians with profiles of twenty prominent figures in the field What makes mathematicians tick How do their minds process formulas and concepts that for most of the rest of the world's population remain mysterious and beyond comprehension Is there a connection between mathematical creativity and mental illness In The Mind of the Mathematician internationally famous mathematician Ioan James and accomplished psychiatrist Michael Fitzgerald look at the complex world of mathematics and the mind Together they explore the behavior and personality traits

that tend to fit the profile of a mathematician They discuss mathematics and the arts savants gender and mathematical ability and the impact of autism personality disorders and mood disorders These topics together with a succinct analysis of some of the great mathematical personalities of the past three centuries combine to form an eclectic and fascinating blend of story and scientific inquiry The authors careful treatments are an especially welcome addition to a genre riddled with apocryphal anecdotes and shoddy scholarship Nature

Mathematical Modeling and Signal Processing in Speech and Hearing Sciences Jack Xin,Yingyong Qi,2014-04-14 The aim of the book is to give an accessible introduction of mathematical models and signal processing methods in speech and hearing sciences for senior undergraduate and beginning graduate students with basic knowledge of linear algebra differential equations numerical analysis and probability Speech and hearing sciences are fundamental to numerous technological advances of the digital world in the past decade from music compression in MP3 to digital hearing aids from network based voice enabled services to speech interaction with mobile phones Mathematics and computation are intimately related to these leaps and bounds On the other hand speech and hearing are strongly interdisciplinary areas where dissimilar scientific and engineering publications and approaches often coexist and make it difficult for newcomers to enter

The Panenmentalist Philosophy of Science Amihud Gilead,2020-03-06 This book presents a philosophy of science based on panenmentalism an original modal metaphysics which is realist about individual pure non actual possibilities and rejects the notion of possible worlds The book systematically constructs a new and novel way of understanding and explaining scientific progress discoveries and creativity It demonstrates that a metaphysics of individual pure possibilities is indispensable for explaining and understanding mathematics and natural sciences It examines the nature of individual pure possibilities actualities mind dependent and mind independent possibilities as well as mathematical entities It discusses in detail the singularity of each human being as a psychical possibility It analyses striking scientific discoveries and illustrates by means of examples of the usefulness and vitality of individual pure possibilities in the sciences

MUS - Mathematimus - Hyperelliptical Geometry Stenio Musich,2024-03-25 M U S Mathematical Uniform Space is a new number of pi representing the reality of the Universe in which we live With this number we created a new geometry Hyperelliptical Geometry which will provide the unification of physics thus uniting the Theory of Relativity and Quantum Theory A new geometry for a new Mathematics and a new Physics ISBN 978 65 00 98107 0

Mathematicians on Creativity Peter Borwein,Peter Liljedahl,Helen Zhai,2018-09-06 This book aims to shine a light on some of the issues of mathematical creativity It is neither a philosophical treatise nor the presentation of experimental results but a compilation of reflections from top caliber working mathematicians In their own words they discuss the art and practice of their work This approach highlights creative components of the field illustrates the dramatic variation by individual and hopes to express the vibrancy of creative minds at work Mathematicians on Creativity is meant for a general audience and is probably best read by browsing

Realizing Reason Danielle Macbeth,2014-03-27 Realizing Reason pursues three interrelated themes First it

traces the essential moments in the historical unfolding from the ancient Greeks through Descartes Kant and developments in the nineteenth century to the present that culminates in the realization of pure reason as a power of knowing Second it provides a cogent account of mathematical practice as a mode of inquiry into objective truth And finally it develops and defends a new conception of our being in the world one that builds on and transforms the now standard conception according to which our experience of reality arises out of brain activity due in part to merely causal impacts on our sense organs Danielle Macbeth shows that to achieve an adequate understanding of the striving for truth in the exact sciences we must overcome this standard conception and that the way to do that is through a more adequate understanding of the nature of mathematical practice and the profound transformations it has undergone over the course of its history the history through which reason is first realized as a power of knowing Because we can understand mathematical practice only if we attend to the systems of written signs within which to do mathematics Macbeth provides an account of the nature and role of written notations specifically of the principal systems that have been developed within which to reason in mathematics Euclidean diagrams the symbolic language of arithmetic and algebra and Frege s concept script Begriffsschrift

Worlds Out of Nothing Jeremy Gray, 2011-02-01 Based on the latest historical research *Worlds Out of Nothing* is the first book to provide a course on the history of geometry in the 19th century Topics covered in the first part of the book are projective geometry especially the concept of duality and non Euclidean geometry The book then moves on to the study of the singular points of algebraic curves Plücker s equations and their role in resolving a paradox in the theory of duality to Riemann s work on differential geometry and to Beltrami s role in successfully establishing non Euclidean geometry as a rigorous mathematical subject The final part of the book considers how projective geometry rose to prominence and looks at Poincaré s ideas about non Euclidean geometry and their physical and philosophical significance Three chapters are devoted to writing and assessing work in the history of mathematics with examples of sample questions in the subject advice on how to write essays and comments on what instructors should be looking for

A New Approach to Differential Geometry using Clifford's Geometric Algebra John Snygg, 2011-12-08 Differential geometry is the study of the curvature and calculus of curves and surfaces A New Approach to Differential Geometry using Clifford s Geometric Algebra simplifies the discussion to an accessible level of differential geometry by introducing Clifford algebra This presentation is relevant because Clifford algebra is an effective tool for dealing with the rotations intrinsic to the study of curved space Complete with chapter by chapter exercises an overview of general relativity and brief biographies of historical figures this comprehensive textbook presents a valuable introduction to differential geometry It will serve as a useful resource for upper level undergraduates beginning level graduate students and researchers in the algebra and physics communities

Reviewing **Bernhard Riemann 1826 1866 Turning Points In The Conception Of Mathematics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Bernhard Riemann 1826 1866 Turning Points In The Conception Of Mathematics**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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