

# 19<sup>th</sup> Century: The Age of Rigor in Mathematics

- Mathematical growth during the 19<sup>th</sup> Century was no less remarkable.
- At the end of the 18<sup>th</sup> Century elementary algebra and calculus had been firmly established. To the synthetic geometry of the Greeks had been added analytic geometry combining algebra and geometry. Modern notations and concepts were mostly in place. Research journals had been established to disseminate mathematical knowledge. Universities had become centers of learning, and other schools and textbooks were becoming more common place. New fields of probability and expansions of geometry had been started. The modern age of mathematics was going strong. The stage was set for rapid mathematical growth.
- During the 19<sup>th</sup> Century the field of Real Analysis was firmly established providing rigorous foundations for calculus and related mathematics from the previous two centuries.
- Rigorous proof was brought to the forefront.
- Entire new fields of mathematics were developed, often with more and more abstraction. The age of modern Pure Mathematics had arrived.
  - Complex Analysis
  - Abstract Algebra – Groups, Rings, Fields
  - Differential Geometry
  - Non-Euclidean Geometry
  - Topology
  - Set Theory
  - Linear Algebra
  - Probability
  - Statistics
  - Applications
  - More

# Mathematics Of The 19th Century

**Todd Timmons**



## Mathematics Of The 19th Century:

*Mathematics of the 19th Century* A.N. Kolmogorov, Adol'f Pavlovich Ilyashkevich, 2001-03 This multi authored effort Mathematics of the nineteenth century to be followed by Mathematics of the twentieth century is a sequel to the History of mathematics from antiquity to the early nineteenth century published in three volumes from 1970 to 1972 1 For reasons explained below our discussion of twentieth century mathematics ends with the 1930s Our general objectives are identical with those stated in the preface to the three volume edition i.e. we consider the development of mathematics not simply as the process of perfecting concepts and techniques for studying real world spatial forms and quantitative relationships but as a social process as well Mathematical structures once established are capable of a certain degree of autonomous development In the final analysis however such immanent mathematical evolution is conditioned by practical activity and is either self directed or as is most often the case is determined by the needs of society Proceeding from this premise we intend first to unravel the forces that shape mathematical progress We examine the interaction of mathematics with the social structure technology the natural sciences and philosophy Through an analysis of mathematical history proper we hope to delineate the relationships among the various mathematical disciplines and to evaluate mathematical achievements in the light of the current state and future prospects of the science The difficulties confronting us considerably exceeded those encountered in preparing the three volume edition **Mathematics of the 19th Century** Andrej Nikolaevič Kolmogorov, 1996

*Development of Mathematics in the 19th Century* Félix Klein, 1979 Historiography of Mathematics in the 19th and 20th Centuries Volker R. Remmert, Martina R. Schneider, Henrik Kragh Sørensen, 2016-12-08 This book addresses the historiography of mathematics as it was practiced during the 19th and 20th centuries by paying special attention to the cultural contexts in which the history of mathematics was written In the 19th century the history of mathematics was recorded by a diverse range of people trained in various fields and driven by different motivations and aims These backgrounds often shaped not only their writing on the history of mathematics but in some instances were also influential in their subsequent reception During the period from roughly 1880-1940 mathematics modernized in important ways with regard to its content its conditions for cultivation and its identity and the writing of the history of mathematics played into the last part in particular Parallel to the modernization of mathematics the history of mathematics gradually evolved into a field of research with its own journals societies and academic positions Reflecting both a new professional identity and changes in its primary audience various shifts of perspective in the way the history of mathematics was and is written can still be observed to this day Initially concentrating on major internal universal developments in certain sub disciplines of mathematics the field gradually gravitated towards a focus on contexts of knowledge production involving individuals local practices problems communities and networks The goal of this book is to link these disciplinary and methodological changes in the history of mathematics to the broader cultural contexts of its practitioners namely the historians of mathematics

during the period in question      **Mathematics of the 19th Century** Andrej Nikolaevič Kolmogorov, Adol'f Pavlovič Juškevič, 1992      *Mathematics of the 19th Century* A.N. Kolmogorov, A.P. Yushkevich, 1998-03-24 The editors of the present series had originally intended to publish an integrated work on the history of mathematics in the nineteenth century passing systematically from one discipline to another in some natural order Circumstances beyond their control mainly difficulties in choosing authors led to the abandonment of this plan by the time the second volume appeared Instead of a unified monograph we now present to the reader a series of books intended to encompass all the mathematics of the nineteenth century but not in the order of the accepted classification of the component disciplines In contrast to the first two books of *The Mathematics of the Nineteenth Century* which were divided into chapters this third volume consists of four parts more in keeping with the nature of the publication 1 We recall that the first book contained essays on the history of mathematical logic algebra number theory and probability while the second covered the history of geometry and analytic function theory In the present third volume the reader will find 1 An essay on the development of Chebyshev's theory of approximation of functions later called constructive function theory by S N Bernshtein This highly original essay is due to the late N I Akhiezer 1901-1980 the author of fundamental discoveries in this area Akhiezer's text will no doubt attract attention not only from historians of mathematics but also from many specialists in constructive function theory      **Mathematics of the 19th Century** Andrei N. Kolmogorov, Adolf-Andrei P. Yushkevich, 1996-04-30 The general principles by which the editors and authors of the present edition have been guided were explained in the preface to the first volume of *Mathematics of the 19th Century* which contains chapters on the history of mathematical logic algebra number theory and probability theory Nauka Moscow 1978 English translation by Birkhäuser Verlag Basel Boston Berlin 1992 Circumstances beyond the control of the editors necessitated certain changes in the sequence of historical exposition of individual disciplines The second volume contains two chapters history of geometry and history of analytic function theory including elliptic and Abelian functions the size of the two chapters naturally entailed dividing them into sections The history of differential and integral calculus as well as computational mathematics which we had planned to include in the second volume will form part of the third volume We remind our readers that the appendix of each volume contains a list of the most important literature and an index of names The names of journals are given in abbreviated form and the volume and year of publication are indicated if the actual year of publication differs from the nominal year the latter is given in parentheses The book *History of Mathematics from Ancient Times to the Early Nineteenth Century* in Russian which was published in the years 1970-1972 is cited in abbreviated form as HM with volume and page number indicated The first volume of the present series is cited as Bk 1 with page numbers

Mathematics of the 19th Century Andrei N. Kolmogorov, Adolf-Andrei P. Yushkevich, 2012-12-06 The general principles by which the editors and authors of the present edition have been guided were explained in the preface to the first volume of *Mathematics of the 19th Century* which contains chapters on the history of mathematical logic algebra number theory and

probability theory Nauka Moscow 1978 English translation by Birkhäuser Verlag Basel Boston Berlin 1992 Circumstances beyond the control of the editors necessitated certain changes in the sequence of historical exposition of individual disciplines The second volume contains two chapters history of geometry and history of analytic function theory including elliptic and Abelian functions the size of the two chapters naturally entailed dividing them into sections The history of differential and integral calculus as well as computational mathematics which we had planned to include in the second volume will form part of the third volume We remind our readers that the appendix of each volume contains a list of the most important literature and an index of names The names of journals are given in abbreviated form and the volume and year of publication are indicated if the actual year of publication differs from the nominal year the latter is given in parentheses The book History of Mathematics from Ancient Times to the Early Nineteenth Century in Russian which was published in the years 1970 1972 is cited in abbreviated form as HM with volume and page number indicated The first volume of the present series is cited as Bk 1 with page numbers Mathematics of the 19th Century Andrei N. Kolmogorov, Adolf Andrei P. Yushkevich, 1996-04-30 The general principles by which the editors and authors of the present edition have been guided were explained in the preface to the first volume of Mathematics of the 19th Century which contains chapters on the history of mathematical logic algebra number theory and probability theory Nauka Moscow 1978 English translation by Birkhäuser Verlag Basel Boston Berlin 1992 Circumstances beyond the control of the editors necessitated certain changes in the sequence of historical exposition of individual disciplines The second volume contains two chapters history of geometry and history of analytic function theory including elliptic and Abelian functions the size of the two chapters naturally entailed dividing them into sections The history of differential and integral calculus as well as computational mathematics which we had planned to include in the second volume will form part of the third volume We remind our readers that the appendix of each volume contains a list of the most important literature and an index of names The names of journals are given in abbreviated form and the volume and year of publication are indicated if the actual year of publication differs from the nominal year the latter is given in parentheses The book History of Mathematics from Ancient Times to the Early Nineteenth Century in Russian which was published in the years 1970 1972 is cited in abbreviated form as HM with volume and page number indicated The first volume of the present series is cited as Bk 1 with page numbers *Mr Hopkins' Men* A.D.D. Craik, 2008-03-21 A few years ago in the Wren Library of Trinity College Cambridge I came across a remarkable but then little known album of pencil and watercolour portraits The artist of most perhaps all was Thomas Charles Wageman Created during 1829 1852 these portraits are of pupils of the famous mathematical tutor William Hopkins Though I knew much about several of the subjects the names of others were then unknown to me I was prompted to discover more about them all and gradually this interest evolved into the present book The project has expanded naturally to describe the Cambridge educational milieu of the time the work of William Hopkins and the later achievements of his pupils and their contemporaries

As I have taught applied mathematics in a British university for forty years during a time of rapid change the struggles to implement and to resist reform in mid nineteenth century Cambridge struck a chord of recognition So too did debates about academic standards of honours degrees And my own experiences as a graduate of a Scottish university who proceeded to Cambridge for postgraduate work gave me a particular interest in those Scots and Irish students who did much the same more than a hundred years earlier As a mathematician I sometimes felt frustrated at having to suppress virtually all of the new mathematics associated with this period but to have included such technical material would have made this a very different book

*Mathematics of the 19th Century* A.N. Kolmogorov, Adolf-Andrei P. Yushkevich, 1998-01-01

**Social History of Nineteenth Century Mathematics** Mehrtens, Hendrik (Short form: Henk) Hendriks, Ivo Schneider, 2012-12-06 During the last few decades historians of science have shown a growing interest in science as a cultural activity and have regarded science more and more as part of the general developments that have occurred in society This trend has been less evident among historians of mathematics who traditionally concentrate primarily on tracing the development of mathematical knowledge itself To some degree this restriction is connected with the special role of mathematics compared with the other sciences mathematics typifies the most objective most coercive type of knowledge and therefore seems to be least affected by social influences Nevertheless biography institutional history and history of national developments have long been elements in the historiography of mathematics This interest in the social aspects of mathematics has widened recently through the study of other themes such as the relation of mathematics to the development of the educational system Some scholars have begun to apply the methods of historical sociology of knowledge to mathematics others have attempted to give a Marxist analysis of the connection between mathematics and productive forces and there have been philosophical studies about the communication processes involved in the production of mathematical knowledge An interest in causal analyses of historical processes has led to the study of other factors influencing the development of mathematics such as the formation of mathematical schools the changes in the professional situation of the mathematician and the general cultural milieu of the mathematical scientist

**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 Mathematics in Nineteenth-Century America Todd Timmons,2013-07 The first third of the nineteenth century was the formative period for American mathematics Nathaniel Bowditch emerged as a leader with an international reputation American scientific journals began publishing mathematical papers and American mathematicians began to turn away from the British dominated mathematical philosophy of their past and to turn towards the modern mathematical approach as represented by the French textbook authors Each of these factors contributed to a work in progress as American mathematicians struggled to build a foundation upon which a research community would form This book traces the development of that that foundation *Mathematics of the 19th Century: Constructive function theory, ordinary differential equations, calculus of variations, theory of finite differences* Andreï Nikolaevich Kolmogorov,1992

*Writing the History of Mathematics: Its Historical Development* Joseph W. Dauben,Christoph J. Scriba,2002-09-23 As an historiographic monograph this book offers a detailed survey of the professional evolution and significance of an entire discipline devoted to the history of science It provides both an intellectual and a social history of the development of the subject from the first such effort written by the ancient Greek author Eudemus in the Fourth Century BC to the founding of the international journal *Historia Mathematica* by Kenneth O May in the early 1970s The Oxford Handbook of the History of Mathematics Eleanor Robson,Jacqueline Stedall,2009 This handbook explores the history of mathematics addressing what mathematics has been and what it has meant to practise it 36 self contained chapters provide a fascinating overview of 5000 years of mathematics and its key cultures for academics in mathematics historians of science and general historians **A**

**History of the Calculus of Variations from the 17th through the 19th Century** H. H. Goldstine,2012-12-06 The calculus of variations is a subject whose beginning can be precisely dated It might be said to begin at the moment that Euler coined the name calculus of variations but this is of course not the true moment of inception of the subject It would not have been unreasonable if I had gone back to the set of isoperimetric problems considered by Greek mathematicians such as Zenodorus c 200 B C and preserved by Pappus c 300 A D I have not done this since these problems were solved by geometric means Instead I have arbitrarily chosen to begin with Fermat s elegant principle of least time He used this principle in 1662 to show how a light ray was refracted at the interface between two optical media of different densities This analysis of Fermat seems to me especially appropriate as a starting point He used the methods of the calculus to minimize the time of passage of a light ray through the two media and his method was adapted by John Bernoulli to solve the brachistochrone

problem There have been several other histories of the subject but they are now hopelessly archaic One by Robert Woodhouse appeared in 1810 and another by Isaac Todhunter in 1861      **Developments of Mathematics in the 19th Century** Felix Klein,1979      **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



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