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# Essays in the history of mathematics

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# Essays In The History Of Mathematics

**Joseph W. Dauben**



## Essays In The History Of Mathematics:

**Essays in the History of Mathematics** Arthur Schlissel, 1984      *Essays in the History of Mathematics* Arthur Schlissel, 1984      Essays in the History of Lie Groups and Algebraic Groups Armand Borel, 2001 Algebraic groups and Lie groups are important in most major areas of mathematics occurring in diverse roles such as the symmetries of differential equations and as central figures in the Langlands program for number theory In this book Professor Borel looks at the development of the theory of Lie groups and algebraic groups highlighting the evolution from the almost purely local theory at the start to the global theory that we know today As the starting point of this passage from local to global the author takes Lie's theory of local analytic transformation groups and Lie algebras He then follows the globalization of the process in its two most important frameworks transcendental differential geometry and algebraic geometry Chapters II to IV are devoted to the former Chapters V to VIII to the latter The essays in the first part of the book survey various proofs of the full reducibility of linear representations of  $SL(2, \mathbb{C})$  the contributions of H. Weyl to representation and invariant theory for Lie groups and conclude with a chapter on E. Cartan's theory of symmetric spaces and Lie groups in the large The second part of the book starts with Chapter V describing the development of the theory of linear algebraic groups in the 19th century Many of the main contributions here are due to E. Study, E. Cartan and above all to L. Maurer After being abandoned for nearly 50 years the theory was revived by Chevalley and Kolchin and then further developed by many others This is the focus of Chapter VI The book concludes with two chapters on various aspects of the works of Chevalley on Lie groups and algebraic groups and Kolchin on algebraic groups and the Galois theory of differential fields The author brings a unique perspective to this study As an important developer of some of the modern elements of both the differential geometric and the algebraic geometric sides of the theory he has a particularly deep appreciation of the underlying mathematics His lifelong involvement and his historical research in the subject give him a special appreciation of the story of its development      *The Architecture of Modern Mathematics* J. Ferreiros, J. J. Gray, 2006-04-27 This edited volume aimed at both students and researchers in philosophy, mathematics and history of science highlights leading developments in the overlapping areas of philosophy and the history of modern mathematics It is a coherent wide ranging account of how a number of topics in the philosophy of mathematics must be reconsidered in the light of the latest historical research and how a number of historical accounts can be deepened by embracing philosophical questions      Essays in the Philosophy and History of Logic and Mathematics Roman Murawski, 2010 The book is a collection of the author's selected works in the philosophy and history of logic and mathematics Papers in Part I include both general surveys of contemporary philosophy of mathematics as well as studies devoted to specialized topics like Cantor's philosophy of set theory the Church thesis and its epistemological status the history of the philosophical background of the concept of number the structuralist epistemology of mathematics and the phenomenological philosophy of mathematics Part II contains essays in the history of logic and mathematics They address

such issues as the philosophical background of the development of symbolism in mathematical logic Giuseppe Peano and his role in the creation of contemporary logical symbolism Emil L Post s works in mathematical logic and recursion theory the formalist school in the foundations of mathematics and the algebra of logic in England in the 19th century The history of mathematics and logic in Poland is also considered This volume is of interest to historians and philosophers of science and mathematics as well as to logicians and mathematicians interested in the philosophy and history of their fields

**Anachronisms in the History of Mathematics** Niccolò Guicciardini, 2021-07-22 The controversial matters surrounding the notion of anachronism are difficult ones they have been broached by literary and art critics by philosophers as well as by historians of science This book adopts a bottom up approach to the many problems concerning anachronism in the history of mathematics Some of the leading scholars in the field of history of mathematics reflect on the applicability of present day mathematical language concepts standards disciplinary boundaries indeed notions of mathematics itself to well chosen historical case studies belonging to the mathematics of the past in European and non European cultures A detailed introduction describes the key themes and binds the various chapters together The interdisciplinary and transcultural approach adopted allows this volume to cover topics important for history of mathematics history of the physical sciences history of science philosophy of mathematics history of philosophy methodology of history non European science and the transmission of mathematical knowledge across cultures **Emergence of the Theory of Lie Groups** Thomas

Hawkins, 2012-12-06 This book is both more and less than a history of the theory of Lie groups during the period 1869 1926 No attempt has been made to provide an exhaustive treatment of all aspects of the theory Instead I have focused upon its origins and upon the subsequent development of its structural aspects particularly the structure and representation of semisimple groups In dealing with this more limited subject matter considerable emphasis has been placed upon the motivation behind the mathematics This has meant paying close attention to the historical context the mathematical or physical considerations that motivate or inform the work of a particular mathematician as well as the disciplinary ideals of a mathematical school that encourage research in certain directions As a result readers will obtain in the ensuing pages glimpses of and I hope the flavor of many areas of nineteenth and early twentieth century geometry algebra and analysis They will also encounter many of the mathematicians of the period including quite a few not directly connected with Lie groups and will become acquainted with some of the major mathematical schools In this sense the book is more than a history of the theory of Lie groups It provides a different perspective on the history of mathematics between roughly 1869 and 1926 Hence the subtitle **History of Mathematics and Its Contexts** Andrea Verdugo Rohrer, Joerg

Zender, 2024-11-01 This book celebrates Gert Schubring s 80th birthday and honors his impactful contributions to the field of history of mathematics and its education Recognized with the prestigious Hans Freudenthal Award in 2019 Schubring s academic work sets the tone for this volume The thoughtfully curated articles in this collection offer insightful studies on

textbooks and biographies of key figures in mathematics and mathematics education contextualizing their significance within the broader historical landscape and providing the readers with a deeper understanding of the development of the history of mathematics and its education Researchers as well as curious readers and students will find this collection to be a valuable resource in the field

Essays on the Foundations of Mathematics by Moritz Pasch Stephen Pollard, 2010-08-03 Moritz Pasch 1843 1930 is justly celebrated as a key figure in the history of axiomatic geometry Less well known are his contributions to other areas of foundational research This volume features English translations of 14 papers Pasch published in the decade 1917 1926 In them Pasch argues that geometry and more surprisingly number theory are branches of empirical science he provides axioms for the combinatorial reasoning essential to Hilbert's program of consistency proofs he explores implicit definition a generalization of definition by abstraction and indicates how this technique yields an empiricist reconstruction of set theory he argues that we cannot fully understand the logical structure of mathematics without clearly distinguishing between decidable and undecidable properties he offers a rare glimpse into the mind of a master of axiomatics surveying in detail the thought experiments he employed as he struggled to identify fundamental mathematical principles and much more This volume will Give English speakers access to an important body of work from a turbulent and pivotal period in the history of mathematics help us look beyond the familiar triad of formalism intuitionism and logicism show how deeply we can see with the help of a guide determined to present fundamental mathematical ideas in ways that match our human capacities will be of interest to graduate students and researchers in logic and the foundations of mathematics

**Mathematics as Metaphor** I. I. Manin, 2007 Includes essays that are grouped in three parts Mathematics Mathematics and Physics and Language Consciousness and Book reviews This book is suitable for those interested in the philosophy and history of mathematics physics and linguistics

*Discrete Thoughts* KAC, ROTA, SCHWARTZ, 2013-11-11

*New Perspectives On Mathematical Practices: Essays In Philosophy And History Of Mathematics* Bart Van Kerkhove, 2008-12-12 This volume focuses on the importance of historical enquiry for the appreciation of philosophical problems concerning mathematics It contains a well balanced mixture of contributions by internationally established experts such as Jeremy Gray and Jens Hoyrup upcoming scholars such as Erich Reck and Dirk Schlimm and young promising researchers at the beginning of their careers The book is situated within a relatively new and broadly naturalistic tradition in the philosophy of mathematics In this alternative philosophical current which has been dramatically growing in importance in the last few decades unlike in the traditional schools proper attention is paid to scientific practices as informing for philosophical accounts

*Essays in Constructive Mathematics* Harold M. Edwards, 2022-09-29 Contents and treatment are fresh and very different from the standard treatments Presents a fully constructive version of what it means to do algebra The exposition is not only clear it is friendly philosophical and considerate even to the most naive or inexperienced reader

**Mathematical Perspectives** Joseph W. Dauben, 2014-05-10 Mathematical Perspectives Essays on Mathematics and its

Historical Development is a collection of 13 biographical essays on the historical advances of science This collection is originally meant to comprise an issue of the journal *Historia Mathematica* in honor of Professor Kurt R Biermann's 60th birthday This 12 chapter text includes essays on studies and commentaries on the problem of figures of equal perimeter by various authors in antiquity including Zenodorus Theon and Pappus Other essays explore the comparison of the areas of polygons with equal perimeter the concept of function history of mathematics the development of mathematical physics in France and the history of Logicism and Formalism The remaining chapters deal with essays on an early version of Gauss *Disquisitiones Arithmeticae* ideal numbers a mathematical philosophical theory of probability and historical examples of problem of number sequence interpolation This book will be of value to mathematicians historians and researchers **The**

**Architecture of Modern Mathematics** Jeremy Gray, 2006

**From Dedekind to Gödel** Jaakko Hintikka, 1995-11-30

Discussions of the foundations of mathematics and their history are frequently restricted to logical issues in a narrow sense or else to traditional problems of analytic philosophy From Dedekind to Gödel *Essays on the Development of the Foundations of Mathematics* illustrates the much greater variety of the actual developments in the foundations during the period covered The viewpoints that serve this purpose included the foundational ideas of working mathematicians such as Kronecker Dedekind Borel and the early Hilbert and the development of notions like model and modelling arbitrary function completeness and non Archimedean structures The philosophers discussed include not only the household names in logic but also Husserl Wittgenstein and Ramsey Needless to say such logically oriented thinkers as Frege Russell and Gödel are not entirely neglected either Audience Everybody interested in the philosophy and or history of mathematics will find this book interesting giving frequently novel insights [Essays on the Foundations of Mathematics by Moritz Pasch](#) Stephen

Pollard, 2010 Moritz Pasch 1843-1930 is justly celebrated as a key figure in the history of axiomatic geometry Less well known are his contributions to other areas of foundational research This volume features English translations of 14 papers Pasch published in the decade 1917-1926 In them Pasch argues that geometry and more surprisingly number theory are branches of empirical science he provides axioms for the combinatorial reasoning essential to Hilbert's program of consistency proofs he explores implicit definition a generalization of definition by abstraction and indicates how this technique yields an empiricist reconstruction of set theory he argues that we cannot fully understand the logical structure of mathematics without clearly distinguishing between decidable and undecidable properties he offers a rare glimpse into the mind of a master of axiomatics surveying in detail the thought experiments he employed as he struggled to identify fundamental mathematical principles and much more This volume will Give English speakers access to an important body of work from a turbulent and pivotal period in the history of mathematics Help us look beyond the familiar triad of formalism intuitionism and logicism Show how deeply we can see with the help of a guide determined to present fundamental mathematical ideas in ways that match our human capacities The book will be of interest to graduate students and

researchers in logic and the foundations of mathematics      Mathematics As Metaphor YURI I. MANIN, 2023 The book includes fifteen essays and an interview The essays are grouped in three parts Mathematics Mathematics and Physics and Language Consciousness and Book reviews Most of the essays are about some aspects of epistemology and the history of sciences mainly mathematics physics and the history of language English translations of some of the essays originally published in Russian appear for the first time in this selection One of them is the introduction to the book Computable and Uncomputable where the idea of a quantum computer was first proposed in 1980 Another is an essay on the mythological trickster figure where the evolutionary role of manipulative behavior is discussed in connection with the problem of the origin of human language With the foreword by Freeman Dyson this book will be of interest to anyone interested in the philosophy and history of mathematics physics and linguistics      *History of Modern Science and Mathematics* Brian S. Baigrie, 2002      Selected Essays on Pre- and Early Modern Mathematical Practice Jens Høyrup, 2019-09-20 This book presents a broad selection of articles mainly published during the last two decades on a variety of topics within the history of mathematics mostly focusing on particular aspects of mathematical practice This book is of interest to and provides methodological inspiration for historians of science or mathematics and students of these disciplines

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### **Table of Contents Essays In The History Of Mathematics**

1. Understanding the eBook Essays In The History Of Mathematics
  - The Rise of Digital Reading Essays In The History Of Mathematics
  - Advantages of eBooks Over Traditional Books
2. Identifying Essays In The History Of Mathematics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Essays In The History Of Mathematics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Essays In The History Of Mathematics
  - Personalized Recommendations
  - Essays In The History Of Mathematics User Reviews and Ratings
  - Essays In The History Of Mathematics and Bestseller Lists



5. Accessing Essays In The History Of Mathematics Free and Paid eBooks
  - Essays In The History Of Mathematics Public Domain eBooks
  - Essays In The History Of Mathematics eBook Subscription Services
  - Essays In The History Of Mathematics Budget-Friendly Options
6. Navigating Essays In The History Of Mathematics eBook Formats
  - ePub, PDF, MOBI, and More
  - Essays In The History Of Mathematics Compatibility with Devices
  - Essays In The History Of Mathematics Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Essays In The History Of Mathematics
  - Highlighting and Note-Taking Essays In The History Of Mathematics
  - Interactive Elements Essays In The History Of Mathematics
8. Staying Engaged with Essays In The History Of Mathematics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Essays In The History Of Mathematics
9. Balancing eBooks and Physical Books Essays In The History Of Mathematics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Essays In The History Of Mathematics
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Essays In The History Of Mathematics
  - Setting Reading Goals Essays In The History Of Mathematics
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Essays In The History Of Mathematics
  - Fact-Checking eBook Content of Essays In The History Of Mathematics
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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