

Emil Artin und Helmut Hasse Die Korrespondenz 1923–1934

Herausgegeben und kommentiert von
Günther Frei und Peter Roquette
unter Mitwirkung von Franz Lemmermeyer



Emil Artin and Helmut Hasse Their Correspondence 1923–1934

Edited and commented by
Günther Frei and Peter Roquette
with contributions of Franz Lemmermeyer

With an Introduction in English



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Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse

David E. Rowe



Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse:

Emil Artin and Helmut Hasse Emil Artin, Günther Frei, Helmut Hasse, Peter Roquette, Franz Lemmermeyer, 2008 This book contains the full text of the letters from Emil Artin to Helmut Hasse as they are preserved in the Handschriftenabteilung of the Göttingen University Library There are 49 such letters written in the years 1923-1934 discussing mathematical problems of the time The corresponding letters in the other direction i.e. from Hasse to Artin seem to be lost We have supplemented Artin's letters by detailed comments combined with a description of the mathematical environment of Hasse and Artin and of the relevant literature In this way it has become possible to sufficiently reconstruct the content of the corresponding letters from Hasse to Artin too Artin and Hasse were among those who shaped modern algebraic number theory in particular class field theory Their correspondence admits a view of the ideas which led to the great achievements of their time starting from Artin's L-series and his reciprocity law towards Hasse's norm symbol local class field theory and the Local Global Principle These letters are a valuable source for understanding the rise and development of mathematical ideas and notions as we see them today The book is a follow up of our earlier book on the correspondence between Hasse and Emmy Noether It is thus the second of a series which aims to open access to the rich collection of Hasse's mathematical letters and notes contained in the Göttingen Handschriftenabteilung

Emil Artin and Helmut Hasse Günther Frei, Franz Lemmermeyer, Peter J. Roquette, 2014-02-28 Emil Artin and Helmut Hasse Günther Frei, Franz Lemmermeyer, Peter J.

Roquette, 2014-01-28 This volume consists of the English translations of the letters exchanged between Emil Artin to Helmut Hasse written from 1921 until 1958 The letters are accompanied by extensive comments explaining the mathematical background and giving the information needed for understanding these letters Most letters deal with class field theory and shed a light on the birth of one of its most profound results Artin's reciprocity law

Emil Artin and Helmut Hasse Günther Frei, Franz Lemmermeyer, Peter J. Roquette, 2014-01-16 This volume consists of the English translations of the letters exchanged between Emil Artin to Helmut Hasse written from 1921 until 1958 The letters are accompanied by extensive comments explaining the mathematical background and giving the information needed for understanding these letters Most letters deal with class field theory and shed a light on the birth of one of its most profound results Artin's reciprocity law

The Hasse - Noether Correspondence 1925 -1935 Peter Roquette, Franz Lemmermeyer, 2023-01-25 Providing the first comprehensive account of the widely unknown cooperation and friendship between Emmy Noether and Helmut Hasse this book contains English translations of all available letters which were exchanged between them in the years 1925-1935 It features a special chapter on class field theory a subject which was completely renewed in those years Noether and Hasse being among its main proponents These historical items give evidence that Emmy Noether's impact on the development of mathematics is not confined to abstract algebra but also extends to important ideas in modern class field theory as part of algebraic number theory In her letters details of proofs appear alongside conjectures and speculations offering a rich source

for those who are interested in the rise and development of mathematical notions and ideas The letters are supplemented by extensive comments helping the reader to understand their content within the mathematical environment of the 1920s and 1930s

The Scholar and the State: In Search of Van der Waerden Alexander Soifer, 2014-11-12 Bartel Leendert van der Waerden made major contributions to algebraic geometry abstract algebra quantum mechanics and other fields He liberally published on the history of mathematics His 2 volume work *Modern Algebra* is one of the most influential and popular mathematical books ever written It is therefore surprising that no monograph has been dedicated to his life and work Van der Waerden's record is complex In attempting to understand his life the author assembled thousands of documents from numerous archives in Germany the Netherlands Switzerland and the United States which revealed fascinating and often surprising new information about van der Waerden Soifer traces Van der Waerden's early years in a family of great Dutch public servants his life as professor in Leipzig during the entire Nazi period and his personal and professional friendship with one of the great physicists Werner Heisenberg We encounter heroes and villains and a much more numerous group in between these two extremes One of them is the subject of this book Soifer's journey through a long list of archives combined with an intensive correspondence had uncovered numerous details of Van der Waerden's German intermezzo that raised serious questions and reproaches Dirk van Dalen Philosophy Utrecht University Professor Soifer's book implicates the anthropologists and culture historians core interest in the evolution of culture and in the progress of human evolution itself on this small contested planet James W Fernandez Anthropology University of Chicago The book is fascinating Professor Soifer has done a great service to the discipline of history as well as deepening our understanding of the 20th century Peter D Johnson Jr Mathematics Auburn University This book is an important contribution to the history of the twentieth century and reads like a novel with an ever fascinating cast of characters Harold W Kuhn Mathematics Princeton University This is a most impressive and important book It is written in an engaging very personal style and challenges the reader's ability of moral and historical judgment While it is not always written in the style of objective professional historiography it satisfies very high standards of scholarly documentation Indeed the book contains a wealth of source material that allows the reader to form a highly detailed picture of the events and personalities discussed in the book As an exemplar of historical writing in a broader sense it can compete with any other historical book Moritz Epple History of Mathematics Frankfurt University

The Riemann Hypothesis in Characteristic p in Historical Perspective Peter Roquette, 2018-09-28 This book tells the story of the Riemann hypothesis for function fields or curves starting with Artin's 1921 thesis covering Hasse's work in the 1930s on elliptic fields and more and concluding with Weil's final proof in 1948 The main sources are letters which were exchanged among the protagonists during that time found in various archives mostly the University Library in Göttingen The aim is to show how the ideas formed and how the proper notions and proofs were found providing a particularly well documented illustration of how mathematics develops in general The book is written for mathematicians but it does not require any

special knowledge of particular mathematical fields **The Legacy of Niels Henrik Abel** Olav Arnfinn Laudal, Ragni Piene, 2011-06-28 This book contains a series of research papers on subjects related to the work of Niels Henrik Abel written by some of the foremost specialists in their fields. Some of the authors have been specifically invited to present papers discussing the influence of Abel in a mathematical historical context. Others have submitted papers presented at the Abel Bicentennial Conference Oslo June 3-8 2002. The idea behind the book has been to produce a text covering a substantial part of the legacy of Abel as perceived at the beginning of the 21st century. It is accompanied by a CD ROM with a large amount of information related to Niels Henrik Abel such as on the Abel Centennial in 1902 and the Abel Bicentennial Conference in 2002, the launching of the Abel Prize, Abel monuments and stamps, banknotes, coins etc. issued in honour of Niels Henrik Abel.

The Honors Class Ben Yandell, 2001-12-12 This eminently readable book focuses on the people of mathematics and draws the reader into their fascinating world. In a monumental address given to the International Congress of Mathematicians in Paris in 1900, David Hilbert, perhaps the most respected mathematician of his time, developed a blueprint for mathematical research in the new century.

The New Mathematical Coloring Book Alexander Soifer, 2024-03-11 The New Mathematical Coloring Book (TNMCB) includes striking results of the past 15-year renaissance that produced new approaches, advances, and solutions to problems from the first edition. A large part of the new edition asks what your computer can do for you, presents the recent breakthrough by Aubrey de Grey, and works by Marijn Heule, Jaan Parts, Geoffrey Exoo, and Dan Ismailescu. TNMCB introduces new open problems and conjectures that will pave the way to the future, keeping the book in the center of the field. TNMCB presents mathematics of coloring as an evolution of ideas with biographies of their creators and historical setting of the world around them and the world around us. A new thing in the world at the time, TMCB I is now joined by a colossal sibling containing more than twice as much of what only Alexander Soifer can deliver: an interweaving of mathematics with history and biography, well seasoned with controversy and opinion. Peter D. Johnson Jr, Auburn University. Like TMCB I, TMCB II is a unique combination of Mathematics, History, and Biography, written by a skilled journalist who has been intimately involved with the story for the last half century. The nature of the subject makes much of the material accessible to students but also of interest to working Mathematicians. In addition to learning some wonderful Mathematics, students will learn to appreciate the influences of Paul Erdős, Ron Graham, and others. Geoffrey Exoo, Indiana State University. The beautiful and unique Mathematical coloring book of Alexander Soifer is another case of good mathematics containing a lot of similar examples. It is not by chance that Szemerédi's Theorem story is included as well, and presenting mathematics as both a science and an art. Peter Mihk, Mathematical Reviews, MathSciNet. A postman came to the door with a copy of the masterpiece of the century. I thank you, and the mathematics community should thank you for years to come. You have set a standard for writing about mathematics and mathematicians that will be hard to match. Harold W. Kuhn, Princeton University. I have never encountered a book of this kind. The best description of it I can give is that it is a mystery novel. I found it hard to

stop reading before I finished in two days the whole text Soifer engages the reader's attention not only mathematically but emotionally and esthetically May you enjoy the book as much as I did Branko Grünbaum University of Washington I am in absolute awe of your 2008 book Aubrey D. N. J. de Grey LEV Foundation Emmy Noether – Mathematician Extraordinaire David E. Rowe, 2021-01-09 Although she was famous as the mother of modern algebra Emmy Noether's life and work have never been the subject of an authoritative scientific biography Emmy Noether Mathematician Extraordinaire represents the most comprehensive study of this singularly important mathematician to date Focusing on key turning points it aims to provide an overall interpretation of Noether's intellectual development while offering a new assessment of her role in transforming the mathematics of the twentieth century Hermann Weyl her colleague before both fled to the United States in 1933 fully recognized that Noether's dynamic school was the very heart and soul of the famous Göttingen community Beyond her immediate circle of students Emmy Noether's lectures and seminars drew talented mathematicians from all over the world Four of the most important were B. L. van der Waerden Pavel Alexandrov Helmut Hasse and Olga Taussky Noether's classic papers on ideal theory inspired van der Waerden to recast his research in algebraic geometry Her lectures on group theory motivated Alexandrov to develop links between point set topology and combinatorial methods Noether's vision for a new approach to algebraic number theory gave Hasse the impetus to pursue a line of research that led to the Brauer Hasse Noether Theorem whereas her abstract style clashed with Taussky's approach to classical class field theory during a difficult time when both were trying to find their footing in a foreign country Although similar to Proving It Her Way Emmy Noether a Life in Mathematics this lengthier study addresses mathematically minded readers Thus it presents a detailed analysis of Emmy Noether's work with Hilbert and Klein on mathematical problems connected with Einstein's theory of relativity These efforts culminated with her famous paper Invariant Variational Problems published one year before she joined the Göttingen faculty in 1919 *Emil Artin und Helmut Hasse* Emil Artin, 2008 *The Best Writing on Mathematics 2011* Mircea Pitici, 2012 The year's finest writing on mathematics from around the world This anthology brings together the year's finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2011 makes available to a wide audience many articles not easily found anywhere else and you don't need to be a mathematician to enjoy them These writings offer surprising insights into the nature meaning and practice of mathematics today They delve into the history philosophy teaching and everyday occurrences of math and take readers behind the scenes of today's hottest mathematical debates Here Ian Hacking discusses the salient features that distinguish mathematics from other disciplines of the mind Doris Schattschneider identifies some of the mathematical inspirations of M. C. Escher's art Jordan Ellenberg describes compressed sensing a mathematical field that is reshaping the way people use large sets of data Erica Klarreich reports on the use of algorithms in the job market for doctors and much much more In addition to presenting the year's most memorable writings on mathematics this must have anthology includes

a foreword by esteemed physicist and mathematician Freeman Dyson This book belongs on the shelf of anyone interested in where math has taken us and where it is headed

Elliptic Curves, Modular Forms, and Their L-functions Álvaro Lozano-Robledo, 2011 Many problems in number theory have simple statements but their solutions require a deep understanding of algebra algebraic geometry complex analysis group representations or a combination of all four The original simply stated problem can be obscured in the depth of the theory developed to understand it This book is an introduction to some of these problems and an overview of the theories used nowadays to attack them presented so that the number theory is always at the forefront of the discussion Lozano Robledo gives an introductory survey of elliptic curves modular forms and L functions His main goal is to provide the reader with the big picture of the surprising connections among these three families of mathematical objects and their meaning for number theory As a case in point Lozano Robledo explains the modularity theorem and its famous consequence Fermat's Last Theorem He also discusses the Birch and Swinnerton Dyer Conjecture and other modern conjectures The book begins with some motivating problems and includes numerous concrete examples throughout the text often involving actual numbers such as $\frac{3}{4}$ $\frac{5}{16}$ $\frac{3344161}{747348}$ and $\frac{2244035177043369699245575130906674863160948472041}{8912332268928859588025535178967163570016480830}$ The theories of elliptic curves modular forms and L functions are too vast to be covered in a single volume and their proofs are outside the scope of the undergraduate curriculum However the primary objects of study the statements of the main theorems and their corollaries are within the grasp of advanced undergraduates This book concentrates on motivating the definitions explaining the statements of the theorems and conjectures making connections and providing lots of examples rather than dwelling on the hard proofs The book succeeds if after reading the text students feel compelled to study elliptic curves and modular forms in all their glory

Episodes in the History of Modern Algebra (1800-1950) Jeremy J. Gray, Karen Hunger Parshall, 2011-08-31 Algebra as a subdiscipline of mathematics arguably has a history going back some 4000 years to ancient Mesopotamia The history however of what is recognized today as high school algebra is much shorter extending back to the sixteenth century while the history of what practicing mathematicians call modern algebra is even shorter still The present volume provides a glimpse into the complicated and often convoluted history of this latter conception of algebra by juxtaposing twelve episodes in the evolution of modern algebra from the early nineteenth century work of Charles Babbage on functional equations to Alexandre Grothendieck's mid twentieth century metaphor of a rising sea in his categorical approach to algebraic geometry In addition to considering the technical development of various aspects of algebraic thought the historians of modern algebra whose work is united in this volume explore such themes as the changing aims and organization of the subject as well as the often complex lines of mathematical communication within and across national boundaries Among the specific algebraic ideas considered are the concept of divisibility and the introduction of non commutative algebras into the study of number theory and the emergence of algebraic geometry in the twentieth century

The resulting volume is essential reading for anyone interested in the history of modern mathematics in general and modern algebra in particular. It will be of particular interest to mathematicians and historians of mathematics.

Algebraic Number Theory Jürgen Neukirch, 2013-03-14 From the review The present book has as its aim to resolve a discrepancy in the textbook literature and to provide a comprehensive introduction to algebraic number theory which is largely based on the modern unifying conception of one dimensional arithmetic algebraic geometry. Despite this exacting program the book remains an introduction to algebraic number theory for the beginner. The author discusses the classical concepts from the viewpoint of Arakelov theory. The treatment of class field theory is particularly rich in illustrating complements, hints for further study and concrete examples. The concluding chapter VII on zeta functions and L series is another outstanding advantage of the present textbook. The book is without any doubt the most up to date systematic and theoretically comprehensive textbook on algebraic number field theory available. W. Kleinert in Zentralblatt für Mathematik 1992

The Shaping of Arithmetic after C.F. Gauss's Disquisitiones Arithmeticae Catherine Goldstein, Norbert Schappacher, Joachim Schwermer, 2007-02-03 Since its publication C.F. Gauss's *Disquisitiones Arithmeticae* 1801 has acquired an almost mythical reputation standing as an ideal of exposition in notation, problems and methods as a model of organisation and theory building and as a source of mathematical inspiration. Eighteen authors, mathematicians, historians, philosophers, have collaborated in this volume to assess the impact of the *Disquisitiones* in the two centuries since its publication.

Loving and Hating Mathematics Reuben Hersh, Vera John-Steiner, 2010-12-13 An exploration of the hidden human emotional and social dimensions of mathematics. Mathematics is often thought of as the coldest expression of pure reason. But few subjects provoke hotter emotions and inspire more love and hatred than mathematics. And although math is frequently idealized as floating above the messiness of human life, its story is nothing if not human. Often it is all too human. *Loving and Hating Mathematics* is about the hidden human emotional and social forces that shape mathematics and affect the experiences of students and mathematicians. Written in a lively accessible style and filled with gripping stories and anecdotes, *Loving and Hating Mathematics* brings home the intense pleasures and pains of mathematical life. These stories challenge many myths, including the notions that mathematics is a solitary pursuit and a young man's game, the belief that mathematicians are emotionally different from other people and even the idea that to be a great mathematician it helps to be a little bit crazy. Reuben Hersh and Vera John-Steiner tell stories of lives in math from their very beginnings through old age, including accounts of teaching and mentoring, friendships and rivalries, love affairs and marriages and the experiences of women and minorities in a field that has traditionally been unfriendly to both. Included here are also stories of people for whom mathematics has been an immense solace during times of crisis, war and even imprisonment, as well as of those rare individuals driven to insanity and even murder by an obsession with math. This is a book for anyone who wants to understand why the most rational of human endeavors is at the same time one of the most emotional.

Class Field Theory Katsuya

Miyake, 2001 This volume is a collection of articles contributed by the speakers at the Mathematical Society of Japan's Seventh International Research Institute entitled Class Field Theory Its Centenary and Prospect held in Tokyo in June 1998 Some of the articles are expository they discuss important interesting aspects of class field theory and contain full references Other articles are historical they vividly explain how leading number theorists in Europe and Japan developed and exchanged their mathematical ideas

A Richer Picture of Mathematics David E. Rowe, 2018-02-13 Historian David E Rowe captures the rich tapestry of mathematical creativity in this collection of essays from the Years Ago column of The Mathematical Intelligencer With topics ranging from ancient Greek mathematics to modern relativistic cosmology this collection conveys the impetus and spirit of Rowe's various and many faceted contributions to the history of mathematics Centered on the Göttingen mathematical tradition these stories illuminate important facets of mathematical activity often overlooked in other accounts Six sections place the essays in chronological and thematic order beginning with new introductions that contextualize each section The essays that follow recount episodes relating to the section's overall theme All of the essays in this collection with the exception of two appeared over the course of more than 30 years in The Mathematical Intelligencer Based largely on archival and primary sources these vignettes offer unusual insights into behind the scenes events Taken together they aim to show how Göttingen managed to attract an extraordinary array of talented individuals several of whom contributed to the development of a new mathematical culture during the first decades of the twentieth century

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Table of Contents Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse

1. Understanding the eBook Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse
 - The Rise of Digital Reading Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse
 - Advantages of eBooks Over Traditional Books
2. Identifying Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse
 - 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 Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse
 - User-Friendly Interface
4. Exploring eBook Recommendations from Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse

- Personalized Recommendations
 - Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse User Reviews and Ratings
 - Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse and Bestseller Lists
5. Accessing Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse Free and Paid eBooks
 - Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse Public Domain eBooks
 - Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse eBook Subscription Services
 - Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse Budget-Friendly Options
 6. Navigating Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse eBook Formats
 - ePub, PDF, MOBI, and More
 - Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse Compatibility with Devices
 - Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse
 - Highlighting and Note-Taking Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse
 - Interactive Elements Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse
 8. Staying Engaged with Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse
 9. Balancing eBooks and Physical Books Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse
 - Setting Reading Goals Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse

- Fact-Checking eBook Content of Emil Artin And Helmut Hasse Emil Artin And Helmut Hasse
 - 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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