

Felix Klein

Gesammelte Mathematische Abhandlungen I

Liniengeometrie –
Grundlegung der Geometrie zum
Erlanger Programm

Gesammelte Abhandlungen Collected Springer Mathematics

M. A. Akivis, B. A. Rosenfeld



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Encyclopedic Dictionary of Mathematics Nihon Sūgakkai, 1993 V 1 A N v 2 O Z Apendices and indexes *Bimonoids for Hyperplane Arrangements* Marcelo Aguiar, Swapneel Mahajan, 2020-03-19 The goal of this monograph is to develop Hopf theory in a new setting which features centrally a real hyperplane arrangement The new theory is parallel to the classical theory of connected Hopf algebras and relates to it when specialized to the braid arrangement Joyal's theory of combinatorial species ideas from Tits theory of buildings and Rota's work on incidence algebras inspire and find a common expression in this theory The authors introduce notions of monoid comonoid bimonoid and Lie monoid relative to a fixed hyperplane arrangement They also construct universal bimonoids by using generalizations of the classical notions of shuffle and quasishuffle and establish the Borel Hopf Poincaré Birkhoff Witt and Cartier-Milnor-Moore theorems in this setting This monograph opens a vast new area of research It will be of interest to students and researchers working in the areas of hyperplane arrangements semigroup theory Hopf algebras algebraic Lie theory operads and category theory *A Century of Mathematical Meetings* Bettye Anne Case, 1996 This book features contributions by and about some of the luminaries of American mathematics Included here are essays based on presentations made during the symposium Celebration of 100 Years of Annual Meetings held at the AMS meeting in Cincinnati in January 1994 In addition a number of contributions were solicited after the symposium The papers in this collection form a vibrant collage of mathematical personalities a collage that makes being a member of the community of mathematicians rich and rewarding This book weaves a tapestry of mathematical life in the United States with emphasis on the past seventy years Photographs old and recent further decorate that tapestry This volume complements three earlier AMS volumes of collected papers about mathematics in America *A Century of Mathematics in America* Parts I II and III There are many stories to be told about the making of mathematics and the personalities of those who meet to share it This collection offers a celebration in words and pictures of a century of American mathematical life **Fractal Geometry and Applications: A Jubilee of Benoit Mandelbrot** Michel Laurent Lapidus, Machiel Van Frankenhuysen, 2004 This volume offers an excellent selection of cutting edge articles about fractal geometry covering the great breadth of mathematics and related areas touched by this subject Included are rich survey articles and fine expository papers The high quality contributions to the volume by well known researchers including two articles by Mandelbrot provide a solid cross section of recent research representing the richness and variety of contemporary advances in and around fractal geometry In demonstrating the vitality and diversity of the field this book will motivate further investigation into the many open problems and inspire future research directions It is suitable for graduate students and researchers interested in fractal geometry and its applications This is a two part volume Part 1 covers analysis number theory and dynamical systems Part 2 multifractals probability and statistical mechanics and applications *The Collected Papers of William Burnside: Commentary on Burnside's life and work ; Papers 1883-1899* William Burnside, 2004 William

Burnside was one of the three most important algebraists who were involved in the transformation of group theory from its nineteenth century origins to a deep twentieth century subject Building on work of earlier mathematicians they were able to develop sophisticated tools for solving difficult problems All of Burnside s papers are reproduced here organized chronologically and with a detailed bibliography Walter Feit has contributed a foreword and a collection of introductory essays are included to provide a commentary on Burnside s work and set it in perspective along with a modern biography that draws on archive material

Elie Cartan (1869-1951) M. A. Akivis, B. A. Rosenfeld, 2011-07-14 This book describes the life and achievements of the great French mathematician Elie Cartan Here readers will find detailed descriptions of Cartan s discoveries in Lie groups and algebras associative algebras differential equations and differential geometry as well of later developments stemming from his ideas There is also a biographical sketch of Cartan s life A monumental tribute to a towering figure in the history of mathematics this book will appeal to mathematicians and historians alike

The Queen of Mathematics Jay Goldman, 1997-11-15 This book takes the unique approach of examining number theory as it emerged in the 17th through 19th centuries It leads to an understanding of today s research problems on the basis of their historical development This book is a contribution to cultural history and brings a difficult subject within the reach of the serious reader

Mathematische Werke / Mathematical Works Erich Kähler, 2011-07-13 For most mathematicians and many mathematical physicists the name Erich Kähler is strongly tied to important geometric notions such as Kähler metrics Kähler manifolds and Kähler groups They all go back to a paper of 14 pages written in 1932 This however is just a small part of Kähler s many outstanding achievements which cover an unusually wide area From celestial mechanics he got into complex function theory differential equations analytic and complex geometry with differential forms and then into his main topic i.e. arithmetic geometry where he constructed a system of notions which is a precursor and in large parts equivalent to the now used system of Grothendieck and Dieudonné His principal interest was in finding the unity in the variety of mathematical themes and establishing thus mathematics as a universal language In this volume Kähler s mathematical papers are collected following a Tribute to Herrn Erich Kähler by S. S. Chern an overview of Kähler s life data by A. Böhm and R. Berndt and a Survey of his Mathematical Work by the editors There are also comments and reports on the developments of the main topics of Kähler s work starting by W. Neumann s paper on the topology of hypersurface singularities J. P. Bourguignon s report on Kähler geometry and among others by Berndt Bost, Deitmar, Ekeland, Kunz and Kriegel up to A. Nicolai s essay Supersymmetry, Kähler geometry and Beyond As Kähler s interest went beyond the realm of mathematics and mathematical physics any picture of his work would be incomplete without touching his work reaching into other regions So a short appendix reproduces three of his articles concerning his vision of mathematics as a universal Theme together with an essay by K. Maurin giving an Approach to the philosophy of Erich Kähler

Chebyshev Polynomials Theodore J. Rivlin, 2020-08-12 This survey of the most important properties of Chebyshev polynomials encompasses several

areas of mathematical analysis Interpolation theory Orthogonal polynomials Approximation theory Numerical integration Numerical analysis Ergodic theory Starting with some definitions and descriptions of elementary properties the treatment advances to examinations of extremal properties the expansion of functions in a series of Chebyshev polynomials and iterative properties The final chapter explores selected algebraic and number theoretic properties of the Chebyshev polynomials For advanced undergraduates and graduate students in mathematics Originally published in 1974 the text was updated in 1990 this reprint of the second edition corrects various errors and features new material **Teichmüller**

Theory in Riemannian Geometry Anthony Tromba, 2012-12-06 These lecture notes are based on the joint work of the author and Arthur Fischer on Teichmüller theory undertaken in the years 1980-1986 Since then many of our colleagues have encouraged us to publish our approach to the subject in a concise format easily accessible to a broad mathematical audience However it was the invitation by the faculty of the ETH Zürich to deliver the ETH Nachdiplom Vorlesungen on this material which provided the opportunity for the author to develop our research papers into a format suitable for mathematicians with a modest background in differential geometry We also hoped it would provide the basis for a graduate course stressing the application of fundamental ideas in geometry For this opportunity the author wishes to thank Eduard Zehnder and Jürgen Moser acting director and director of the Forschungsinstitut für Mathematik at the ETH Gisbert Wiethölz responsible for the Nachdiplom Vorlesungen and the entire ETH faculty for their support and warm hospitality This new approach to Teichmüller theory presented here was undertaken for two reasons First it was clear that the classical approach using the theory of extremal quasi conformal mappings in this approach we completely avoid the use of quasi conformal maps was not easily applicable to the theory of minimal surfaces a field of interest of the author over many years Second many other active mathematicians who at various times needed some Teichmüller theory have found the classical approach inaccessible to them The Book of Involutions Max-Albert Knus, 1998-06-30 This monograph is an exposition of the theory of central simple algebras with involution in relation to linear algebraic groups It provides the algebra theoretic foundations for much of the recent work on linear algebraic groups over arbitrary fields Involutions are viewed as twisted forms of hermitian quadrics leading to new developments on the model of the algebraic theory of quadratic forms In addition to classical groups phenomena related to triality are also discussed as well as groups of type F_4 or G_2 arising from exceptional Jordan or composition algebras Several results and notions appear here for the first time notably the discriminant algebra of an algebra with unitary involution and the algebra theoretic counterpart to linear groups of type D_4 This volume also contains a Bibliography and Index Features original material not in print elsewhere a comprehensive discussion of algebra theoretic and group theoretic aspects extensive notes that give historical perspective and a survey on the literature rational methods that allow possible generalization to more general base rings *The 21st Hilbert Problem for Linear Fuchsian Systems* A. A. Bolibrukh, 1995 Bolibrukh presents the negative solution of Hilbert's twenty first problem for linear Fuchsian systems of

differential equations Methods developed by Bolibrukh in solving this problem are then applied to the study of scalar Fuchsian equations and systems with regular singular points on the Riemann sphere **Who Gave You the Epsilon?**

Marlow Anderson, Victor Katz, Robin Wilson, 2009-03-31 Follows on from Sherlock Holmes in Babylon to take the history of mathematics through the nineteenth and twentieth centuries **Musings of the Masters** Raymond G. Ayoub, 2004-06-01

The anthology is a collection of articles contiguous to the humanities written by renowned mathematicians of the twentieth century The articles cover a variety of topics that for want of a better name shall be referred to as humanistic An important criterion thereby limiting the choice is that the articles should be accessible to the literate reader who may or may not have technical knowledge of mathematics The articles span roughly a century in time and a wide range in subject They are by mathematicians acknowledged by their peers as outstanding creators whose work has added richly to the discipline Each article is preceded by a brief biographical sketch of the author and a brief indication of the content The material is accessible to a wide audience lay as well as academic **Mathematics in Berlin** Heinrich Begehr, Helmut Koch, Jürg Kramer, Norbert Schappacher, Ernst-Jochen Thiele, 2012-12-06

This little book is conceived as a service to mathematicians attending the 1998 International Congress of Mathematicians in Berlin It presents a comprehensive condensed overview of mathematical activity in Berlin from Leibniz almost to the present day without however including biographies of living mathematicians Since many towering figures in mathematical history worked in Berlin most of the chapters of this book are concise biographies These are held together by a few survey articles presenting the overall development of entire periods of scientific life at Berlin Overlaps between various chapters and differences in style between the chapters were inevitable but sometimes this provided opportunities to show different aspects of a single historical event for instance the Kronecker Weierstrass controversy The book aims at readability rather than scholarly completeness There are no footnotes only references to the individual bibliographies of each chapter Still we do hope that the texts brought together here and written by the various authors for this volume constitute a solid introduction to the history of Berlin mathematics **Ramanujan: Letters and**

Commentary Srinivasa Ramanujan Aiyangar, Bruce C. Berndt, Robert Alexander Rankin, 1995 The letters that Ramanujan wrote to G H Hardy on January 16 and February 27 1913 are two of the most famous letters in the history of mathematics These and other letters introduced Ramanujan and his remarkable theorems to the world and stimulated much research especially in the 1920s and 1930s This book brings together many letters to and from Ramanujan The letters came from the National Archives in Delhi the Archives in the State of Tamil Nadu and a variety of other sources Helping to orient the reader is the extensive commentary both mathematical and cultural by Berndt and Rankin in particular they discuss in detail the history up to the present day of each mathematical result in the letters Containing many letters that have never been published before this book will appeal to those interested in Ramanujan's mathematics as well as those wanting to learn more about the personal side of his life Ramanujan Letters and Commentary was selected for the CHOICE list of Outstanding

Academic Books for 1996 **Selected Papers on Harmonic Analysis, Groups, and Invariants** Katsumi Nomizu, 1997
The five papers originally appeared in Japanese in the journal Sugaku and would ordinarily appear in the Society's translation of that journal but are published separately here to expedite their dissemination. They explore such aspects as representation theory, differential geometry, invariant theory, and complex analysis. No index. Member prices are 47 for institutions and 35 for individuals. Annotation copyrighted by Book News Inc. Portland, OR **Bernstein Functions** René L. Schilling, Renming Song, Zoran Vondracek, 2012-10-01. Bernstein functions appear in various fields of mathematics, e.g., probability theory, potential theory, operator theory, functional analysis, and complex analysis, often with different definitions and under different names. Among the synonyms are Laplace exponent, instead of Bernstein function, and complete Bernstein functions are sometimes called Pick functions, Nevanlinna functions, or operator monotone functions. This monograph, now in its second revised and extended edition, offers a self-contained and unified approach to Bernstein functions and closely related function classes, bringing together old and establishing new connections. For the second edition, the authors added a substantial amount of new material. As in the first edition, Chapters 1 to 11 contain general material which should be accessible to non-specialists, while the later Chapters 12 to 15 are devoted to more specialized topics. An extensive list of complete Bernstein functions with their representations is provided. Mathematics Douglas M. Campbell, John C. Higgins, 1984. Based upon the principle that graph design should be a science, this book presents the principles of graph construction. The orientation of the material is toward graphs in technical writings such as journal articles and technical reports. But much of the material is relevant for graphs shown in talks and for graphs in nontechnical publications. From back cover.

Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Gesammelte Abhandlungen Collected Springer Mathematics**

In a global inundated with screens and the cacophony of fast interaction, the profound energy and mental resonance of verbal beauty often disappear into obscurity, eclipsed by the continuous barrage of sound and distractions. However, nestled within the lyrical pages of **Gesammelte Abhandlungen Collected Springer Mathematics**, a captivating work of fictional elegance that impulses with natural emotions, lies an remarkable trip waiting to be embarked upon. Penned by a virtuoso wordsmith, that mesmerizing opus books viewers on an emotional odyssey, softly exposing the latent potential and profound impact stuck within the delicate internet of language. Within the heart-wrenching expanse with this evocative examination, we will embark upon an introspective exploration of the book is key subjects, dissect its interesting publishing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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