Extension Theory

Hermann Grassmann

Francesco Mainardi,Andrea Giusti

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  Advanced Mathematical Methods Francesco Mainardi,Andrea Giusti,2020-02-05 The many technical and computational problems that appear to be constantly emerging in various branches of physics and engineering beg for a more detailed understanding of the fundamental mathematics that serves as the cornerstone of our way of understanding natural phenomena The purpose of this Special Issue was to establish a brief collection of carefully selected articles authored by promising young scientists and the world s leading experts in pure and applied mathematics highlighting the state of the art of the various research lines focusing on the study of analytical and numerical mathematical methods for pure and applied sciences   Ausdehnungslehre Hermann Günther Grassmann, The Ausdehnungslehre of 1862 is Grassmann s most mature presentation of his extension theory The work was unique in capturing the full sweep of his mathematical achievements Compared with Grassmann s first book Lineale Ausdehnungslehre this book contains an enormous amount of new material including a detailed development of the inner product and its relation to the concept of angle the theory of functions from the point of view of extension theory and Grassmann s contribution to the Pfaff problem In many ways this book is the version of Grassmann s system most accessible to contemporary readers This translation is based on the material in Grassmann s Gesammelte Werke published by B G Teubner Stuttgart and Leipzig Germany It includes nearly all the Editorial Notes from that edition but the improved proofs are relocated and Grassmann s original proofs are restored to their proper places The original Editorial Notes are augmented by Supplementary Notes elucidating Grassmann s achievement in modern terms This is the third in an informal sequence of works to be included within the History of Mathematics series co published by the AMS and the London Mathematical Society Volumes in this subset are classical mathematical works that served as cornerstones for modern mathematical thought   **The History of Mathematics: A Source-Based Approach, Volume 2** June Barrow-Green,Jeremy Gray,Robin Wilson,2022-05-26 The History of Mathematics A Source Based Approach is a comprehensive history of the development of mathematics This the second volume of a two volume set takes the reader from the invention of the calculus to the beginning of the twentieth century The initial discoverers of calculus are given thorough investigation and special attention is also paid to Newton s Principia The eighteenth century is presented as primarily a period of the development of calculus particularly in differential equations and applications of mathematics Mathematics blossomed in the nineteenth century and the book explores progress in geometry analysis foundations algebra and applied mathematics especially celestial mechanics The approach throughout is markedly historiographic How do we know what we know How do we read the original documents What are the institutions supporting mathematics Who are the people of mathematics The reader learns not only the history of mathematics but also how to think like a historian The two volume set was designed as a textbook for the authors acclaimed year long course at the Open University It is in addition to being an innovative and insightful textbook an invaluable resource for students and scholars of the history of mathematics

The authors each among the most distinguished mathematical historians in the world have produced over fifty books and earned scholarly and expository prizes from the major mathematical societies of the English speaking world   Theory of the Electron J. Keller,2005-12-19 In the first century after its discovery the electron has come to be a fundamental element in the analysis of physical aspects of nature This book is devoted to the construction of a deductive theory of the electron starting from first principles and using a simple mathematical tool geometric analysis Its purpose is to present a comprehensive theory of the electron to the point where a connection can be made with the main approaches to the study of the electron in physics The introduction describes the methodology Chapter 2 presents the concept of space time action relativity theory and in chapter 3 the mathematical structures describing action are analyzed Chapters 4 5 and 6 deal with the theory of the electron in a series of aspects where the geometrical analysis is more relevant Finally in chapter 7 the form of geometrical analysis used in the book is presented to elucidate the broad range of topics which are covered and the range of mathematical structures which are implicitly or explicitly included The book is directed to two different audiences of graduate students and research scientists primarily to theoretical physicists in the field of electron physics as well as those in the more general field of quantum mechanics elementary particle physics and general relativity secondly to mathematicians in the field of geometric analysis   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 Mathemat ics of the 19th Century which contains chapters on the history of mathematical logic algebra number theory and probability theory Nauka Moscow 1978 En glish translation by Birkhiiuser 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 di viding 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   Ausdehnungslehre Hermann Grassmann,2000 The Ausdehnungslehre of 1862 is Grassmann s most mature presentation of his extension theory The work was unique in capturing the full sweep of his mathematical achievements Compared with Grassmann s first book Lineale Ausdehnungslehre this book contains an enormous amount of new material including a detailed development of the inner

product and its relation to the concept of angle the theory of functions from the point of view of extension theory and Grassmann s contribution to the Pfaff problem In many ways this book is the version of Grassmann s system most accessible to contemporary readers This translation is based on the material in Grassmann s Gesammelte Werke published by B G Teubner Stuttgart and Leipzig Germany It includes nearly all the Editorial Notes from that edition but the improved proofs are relocated and Grassmann s original proofs are restored to their proper places The original Editorial Notes are augmented by Supplementary Notes elucidating Grassmann s achievement in modern terms This is the third in an informal sequence of works to be included within the History of Mathematics series co published by the AMS and the London Mathematical Society Volumes in this subset are classical mathematical works that served as cornerstones for modern mathematical thought **Linear Algebra and Matrix Computations with MATLAB®** Dingyü Xue,2020-03-23 This book focuses the solutions of linear algebra and matrix analysis problems with the exclusive use of MATLAB The topics include representations fundamental analysis transformations of matrices matrix equation solutions as well as matrix functions Attempts on matrix and linear algebra applications are also explored **Programs as Diagrams** Dusko Pavlovic,2023-09-19 It is not always clear what computer programs mean in the various languages in which they can be written yet a picture can be worth 1000 words a diagram 1000 instructions In this unique textbook reference programs are drawn as string diagrams in the language of categories which display a universal syntax of mathematics Computer scientists use them to analyze the program semantics programmers to display the syntax of computations Here the string diagrammatic depictions of computations are construed as programs in a single instruction programming language Such programs as diagrams show how functions are packed in boxes and tied by strings Readers familiar with categories will learn about the foundations of computability readers familiar with computability gain access to category theory Additionally readers familiar with both are offered many opportunities to improve the approach Topics and features Delivers a crash diagram based course in theory of computation Uses single instruction diagrammatic programming language Offers a practical introduction into categories and string diagrams as computational tools Reveals how computability is programmability rather than an ether permeating computers Provides a categorical model of intensional computation is unique up to isomorphism Serves as a stepping stone into research of computable categories In addition to its early chapters introducing computability for beginners this flexible textbook resource also contains both middle chapters that expand for suitability to a graduate course as well as final chapters opening up new research Dusko Pavlovic is a professor at the Department of Information and Computer Sciences at the University of Hawaii at Manoa and by courtesy at the Department of Mathematics and the College of Engineering He completed this book as an Excellence Professor at Radboud University in Nijmegen The Netherlands *Encyclopaedia of Mathematics* M. Hazewinkel,2013-12-01 **Encyclopaedia of Mathematics** Michiel Hazewinkel,2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathe matics It is a translation with

updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivi sion has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science en gineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques   **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   **Application of Geometric Algebra to Electromagnetic Scattering** Andrew Seagar,2015-11-12 This work presents the Clifford Cauchy Dirac CCD technique for solving problems involving the scattering of electromagnetic radiation from materials of all kinds It allows anyone who is interested to master techniques that lead to simpler and more efficient solutions to problems of electromagnetic scattering than are currently in use The technique is formulated in terms of the Cauchy kernel single integrals Clifford algebra and a whole field approach This is in contrast to many conventional techniques that are formulated in terms of Green s functions double integrals vector calculus and the combined field integral equation CFIE Whereas these conventional techniques lead to an implementation using the method of moments MoM the CCD technique is implemented as alternating projections onto convex sets in a Banach space The ultimate outcome is an integral formulation that lends itself to a more direct and efficient solution than conventionally is the case and applies without exception to all types of materials On any particular machine it results in either a faster solution for a given problem or the ability to solve problems of greater complexity The Clifford Cauchy Dirac technique offers very real and significant advantages in uniformity complexity speed storage stability consistency and accuracy   The St. Petersburg School of Number Theory Boris Nikolaevich Delone, With a Foreword written for the English edition this volume will appeal to a broad mathematical audience including mathematical historians and mathematicians working in number theory BOOK JACKET

Max Dehn Jemma Lorenat,John McCleary,Volker R. Remmert,David E. Rowe,Marjorie Senechal,2024-10-04 Max Dehn 1878 1952 is known to mathematicians today for his seminal contributions to geometry and topology Dehn surgery Dehn twists the Dehn invariant etc He is also remembered as the first mathematician to solve one of Hilbert s famous problems However Dehn s influence as a scholar and teacher extended far beyond his mathematics Dehn also lived a remarkable life described in this book in three phases The first phase focuses on his early career as one of David Hilbert s most gifted students The second after World War I treats his time in Frankfurt where he led an intimate community of mathematicians in explorations of historical texts The final phase after 1938 concerns his flight from Nazi Germany to Scandinavia and eventually to the United States where after various teaching experiences the Dehns settled at iconic Black Mountain College This book is a collection of essays written by mathematicians and historians of art and science It treats Dehn s mathematics and its influence his journeys and his remarkable engagement in history and the arts A great deal of the information found in this book has never before been published   **Logic's Lost Genius** Eckart Menzler-Trott,2016-05-05 Gerhard Gentzen 1909 1945 is the founder of modern structural proof theory His lasting methods rules and structures resulted not only in the technical mathematical discipline called proof theory but also in verification programs that are essential in computer science The appearance clarity and elegance of Gentzen s work on natural deduction the sequent calculus and ordinal proof theory continue to be impressive even today The present book gives the first comprehensive detailed accurate scientific biography expounding the life and work of Gerhard Gentzen one of our greatest logicians until his arrest and death in Prague in 1945 Particular emphasis in the book is put on the conditions of scientific research in this case mathematical logic in National Socialist Germany the ideological fight for German logic and their mutual protagonists Numerous hitherto unpublished sources family documents archival material interviews and letters as well as Gentzen s lectures for the mathematical public make this book an indispensable source of information on this important mathematician his work and his time The volume is completed by two deep substantial essays by Jan von Plato and Craig Smory ski on Gentzen s proof theory its relation to the ideas of Hilbert Brouwer Weyl and G del and its development up to the present day Smory ski explains the Hilbert program in more than the usual slogan form and shows why consistency is important Von Plato shows in detail the benefits of Gentzen s program This important book is a self contained starting point for any work on Gentzen and his logic The book is accessible to a wide audience with different backgrounds and is suitable for general readers researchers students and teachers   *The Scientific Legacy of Poincare* Éric Charpentier,Etienne Ghys,Annick Lesne,2010 Henri Poincare 1854 1912 was one of the greatest scientists of his time perhaps the last one to have mastered and expanded almost all areas in mathematics and theoretical physics He created new mathematical branches such as algebraic topology dynamical systems and automorphic functions and he opened the way to complex analysis with several variables and to the modern approach to asymptotic expansions He revolutionized celestial mechanics discovering deterministic chaos In physics he is one of the fathers of

special relativity and his work in the philosophy of sciences is illuminating For this book about twenty world experts were asked to present one part of Poincare s extraordinary work Each chapter treats one theme presenting Poincare s approach and achievements along with examples of recent applications and some current prospects Their contributions emphasize the power and modernity of the work of Poincare an inexhaustible source of inspiration for researchers as illustrated by the Fields Medal awarded in 2006 to Grigori perelman for his proof of the Poincare conjecture stated a century before This book can be read by anyone with a master s even a bachelor s degree in mathematics or physics or more generally by anyone who likes mathematical and physical ideas Rather than presenting detailed proofs the main ideas are explained and a bibliography is provided for those who wish to understand the technical details **Monomial Ideals and Their Decompositions** W. Frank Moore,Mark Rogers,Sean Sather-Wagstaff,2018-10-24 This textbook on combinatorial commutative algebra focuses on properties of monomial ideals in polynomial rings and their connections with other areas of mathematics such as combinatorics electrical engineering topology geometry and homological algebra Aimed toward advanced undergraduate students and graduate students who have taken a basic course in abstract algebra that includes polynomial rings and ideals this book serves as a core text for a course in combinatorial commutative algebra or as preparation for more advanced courses in the area The text contains over 600 exercises to provide readers with a hands on experience working with the material the exercises include computations of specific examples and proofs of general results Readers will receive a firsthand introduction to the computer algebra system Macaulay2 with tutorials and exercises for most sections of the text preparing them for significant computational work in the area Connections to non monomial areas of abstract algebra electrical engineering combinatorics and other areas of mathematics are provided which give the reader a sense of how these ideas reach into other areas Field Extensions and Galois Theory Julio R. Bastida,1984-12-28 This 1984 book aims to make the general theory of field extensions accessible to any reader with a modest background in groups rings and vector spaces Galois theory is regarded amongst the central and most beautiful parts of algebra and its creation marked the culmination of generations of investigation *Sets and Extensions in the Twentieth Century* ,2012-01-24 Set theory is an autonomous and sophisticated field of mathematics that is extremely successful at analyzing mathematical propositions and gauging their consistency strength It is as a field of mathematics that both proceeds with its own internal questions and is capable of contextualizing over a broad range which makes set theory an intriguing and highly distinctive subject This handbook covers the rich history of scientific turning points in set theory providing fresh insights and points of view Written by leading researchers in the field both this volume and the Handbook as a whole are definitive reference tools for senior undergraduates graduate students and researchers in mathematics the history of philosophy and any discipline such as computer science cognitive psychology and artificial intelligence for whom the historical background of his or her work is a salient consideration Serves as a singular contribution to the intellectual history of the 20th century Contains the latest

scholarly discoveries and interpretative insights **The Life and Times of the Central Limit Theorem** William J. Adams,2009-11-25 About the First Edition The study of any topic becomes more meaningful if one also studies the historical development that resulted in the final theorem This is an excellent book on mathematics in the making Philip Peak The Mathematics Teacher May 1975 I find the book very interesting It contains valuable information and useful references It can be recommended not only to historians of science and mathematics but also to students of probability and statistics Wei Ching Chang Historica Mathematica August 1976 In the months since I wrote I have read it from cover to cover at least once and perused it here and there a number of times I still find it a very interesting and worthwhile contribution to the history of probability and statistics Churchill Eisenhart past president of the American Statistical Association in a letter to the author February 3 1975 The name Central Limit Theorem covers a wide variety of results involving the determination of necessary and sufficient conditions under which sums of independent random variables suitably standardized have cumulative distribution functions close to the Gaussian distribution As the name Central Limit Theorem suggests it is a centerpiece of probability theory which also carries over to statistics Part One of The Life and Times of the Central Limit Theorem Second Edition traces its fascinating history from seeds sown by Jacob Bernoulli to use of integrals of exp x 2 as an approximation tool the development of the theory of errors of observation problems in mathematical astronomy the emergence of the hypothesis of elementary errors the fundamental work of Laplace and the emergence of an abstract Central Limit Theorem through the work of Chebyshev Markov and Lyapunov This closes the classical period of the life of the Central Limit Theorem 1713 1901 The second part of the book includes papers by Feller and Le Cam as well as comments by Doob Trotter and Pollard describing the modern history of the Central Limit Theorem 1920 1937 in particular through contributions of Lindeberg Cramer Levy and Feller The Appendix to the book contains four fundamental papers by Lyapunov on the Central Limit Theorem made available in English for the first time

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