

**MEROMORPHIC FUNCTIONS AND
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HERMANN WEYL

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[Meromorphic Functions and Analytic Curves](#) Hermann Weyl, 1992 [Meromorphic Functions and Analytic Curves](#), by Hermann Weyl in Collaboration with F. Joachim Weyl. Princeton, Princeton University Press, 1943 Hermann Weyl, Fritz Joachim Weyl, 1965 [Kunihiko Kodaira, Volume I](#) Kunihiko Kodaira, 2015-03-08 Kunihiko Kodaira's influence in mathematics has been fundamental and international, and his efforts have helped lay the foundations of modern complex analysis. These three volumes contain Kodaira's written contributions published in a large number of journals and books between 1937 and 1971. The volumes cover chronologically the major periods of Kodaira's mathematical concentration and reflect his collaboration with other prominent theoreticians. Thus they begin with early works that discuss the application of Hilbert space methods to differential equations and the use of elementary solutions to prove regularity theorems for strongly elliptic systems of partial differential equations. Originally published in 1975. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

[Meromorphic Functions and Projective Curves](#) Kichoon Yang, 2013-11-27 This book contains an exposition of the theory of meromorphic functions and linear series on a compact Riemann surface. Thus the main subject matter consists of holomorphic maps from a compact Riemann surface to complex projective space. Our emphasis is on families of meromorphic functions and holomorphic curves. Our approach is more geometric than algebraic, along the lines of Griffiths and Harris. Also we have relied on the books Namba and Arbarello, Cornalba, Griffiths, and Harris. To a great extent, nearly every result in Chapters 1 through 4 can be found in the union of these two books. Our primary motivation was to understand the totality of meromorphic functions on an algebraic curve. Though this is a classical subject and much is known about meromorphic functions, we felt that an accessible exposition was lacking in the current literature. Thus our book can be thought of as a modest effort to expose parts of the known theory of meromorphic functions and holomorphic curves with a geometric bent. We have tried to make the book self-contained and concise, which meant that several major proofs not essential to further

development of the theory had to be omitted. The book is targeted at the non expert who wishes to learn enough about meromorphic functions and holomorphic curves so that he/she will be able to apply the results in his/her own research. For example a differential geometer working in minimal surface theory may want to find out more about the distribution pattern of poles and zeros of a meromorphic function

Theory of Entire and Meromorphic Functions Guan-hou

Zhang, 1993-01-01 This book was originally written in Chinese in 1986 by the noted complex analyst Zhang Guan Hou who was a research fellow at the Academia Sinica. The book provides a basic introduction to the development of the theory of entire and meromorphic functions from the 1950s to the early 1980s. After an opening chapter introducing fundamentals of Nevanlinna's value distribution theory this book discusses various relationships among and developments of three central concepts: deficient value, asymptotic value and singular direction. This book describes many significant results and research directions developed by Zhang and other Chinese complex analysts and published in Chinese mathematical journals. A comprehensive and self-contained reference this book is useful for graduate students and researchers in complex analysis.

Handbook of Elliptic and Hyperelliptic Curve Cryptography Henri Cohen, Gerhard Frey, Roberto Avanzi, Christophe Doche, Tanja Lange, Kim Nguyen, Frederik Vercauteren, 2005-07-19 The discrete logarithm problem based on elliptic and hyperelliptic curves has gained a lot of popularity as a cryptographic primitive. The main reason is that no subexponential algorithm for computing discrete logarithms on small genus curves is currently available except in very special cases. Therefore curve based cryptosystems require much smaller key sizes than RSA to attain the same security level. This makes them particularly attractive for implementations on memory restricted devices like smart cards and in high security applications. The Handbook of Elliptic and Hyperelliptic Curve Cryptography introduces the theory and algorithms involved in curve based cryptography. After a very detailed exposition of the mathematical background it provides ready to implement algorithms for the group operations and computation of pairings. It explores methods for point counting and constructing curves with the complex multiplication method and provides the algorithms in an explicit manner. It also surveys generic methods to compute discrete logarithms and details index calculus methods for hyperelliptic curves. For some special curves the discrete logarithm problem can be transferred to an easier one the consequences are explained and suggestions for good choices are given. The authors present applications to protocols for discrete logarithm based systems including bilinear structures and explain the use of elliptic and hyperelliptic curves in factorization and primality proving. Two chapters explore their design and efficient implementations in smart cards. Practical and theoretical aspects of side channel attacks and countermeasures and a chapter devoted to pseudo random number generation round off the exposition. The broad coverage of all important areas makes this book a complete handbook of elliptic and hyperelliptic curve cryptography and an invaluable reference to anyone interested in this exciting field

Topological Classification of Families of Diffeomorphisms Without Small Divisors Javier Ribón, 2010 The author gives a complete topological classification for germs of one parameter

families of one dimensional complex analytic diffeomorphisms without small divisors In the non trivial cases the topological invariants are given by some functions attached to the fixed points set plus the analytic class of the element of the family corresponding to the special parameter The proof is based on the structure of the limits of orbits when we approach the special parameter **Selecta** Donald Clayton Spencer,1985 *Bulletin of the American Mathematical Society* American Mathematical Society,1903 1928 **Japanese Journal of Mathematics** ,1926 *guide to the literature of mathematics and physics* nathan grier parke III,1958 *Bollettino Della Unione Matematica Italiana* Unione matematica italiana,1983 *Functions of a Complex Variable and Some of Their Applications* B. A. Fuchs,B. V. Shabat,2014-08-01 Functions of a Complex Variable and Some of Their Applications Volume 1 discusses the fundamental ideas of the theory of functions of a complex variable The book is the result of a complete rewriting and revision of a translation of the second 1957 Russian edition Numerous changes and additions have been made both in the text and in the solutions of the Exercises The book begins with a review of arithmetical operations with complex numbers Separate chapters discuss the fundamentals of complex analysis the concept of conformal transformations the most important of the elementary functions and the complex potential for a plane vector field and the application of the simplest methods of function theory to the analysis of such a field Subsequent chapters cover the fundamental apparatus of the theory of regular functions i e basic integral theorems and expansions in series the general concept of an analytic function applications of the theory of residues and polygonal domain mapping This book is intended for undergraduate and postgraduate students of higher technical institutes and for engineers wishing to increase their knowledge of theory **Geometrical and Algebraical Aspects in Several Complex Variables** Carlos A. Berenstein,Daniele Carlo Struppa,1991 *Annals of Mathematics Studies* ,1970 **Kōdai Mathematical Seminar Reports** ,1949 **Encyclopaedia of Mathematics** Michiel Hazewinkel,2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics 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 subdivision 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 engineers 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

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