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Kurt Strebel

# Quadratic Differentials



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# Quadratic Differentials

**Frederick P. Gardiner, Nikola Lakic**



## Quadratic Differentials:

**Quadratic Differentials** K. Strebel, 2013-03-09 A quadratic differential on a Riemann surface is locally represented by a holomorphic function element which transforms like the square of a derivative under a conformal change of the parameter. More generally one also allows for meromorphic function elements; however in many considerations it is convenient to puncture the surface at the poles of the differential. One is then back at the holomorphic case. A quadratic differential defines in a natural way a field of line elements on the surface with singularities at the critical points, i.e. the zeros and poles of the differential. The integral curves of this field are called the trajectories of the differential. A large part of this book is about the trajectory structure of quadratic differentials. There are of course local and global aspects to this structure. Besides there is the behaviour of an individual trajectory and the structure determined by entire subfamilies of trajectories. An Abelian or first order differential has an integral or primitive function; in general not single valued. In the case of a quadratic on the surface which differential one first has to take the square root and then integrate. The local integrals are only determined up to their sign and arbitrary additive constants. However it is this multivalued function which plays an important role in the theory: the trajectories are the images of the horizontals by single valued branches of its inverse. *Quadratic Differentials*

K. Strebel, 1984-04-02 A quadratic differential on a Riemann surface is locally represented by a holomorphic function element which transforms like the square of a derivative under a conformal change of the parameter. More generally one also allows for meromorphic function elements; however in many considerations it is convenient to puncture the surface at the poles of the differential. One is then back at the holomorphic case. A quadratic differential defines in a natural way a field of line elements on the surface with singularities at the critical points, i.e. the zeros and poles of the differential. The integral curves of this field are called the trajectories of the differential. A large part of this book is about the trajectory structure of quadratic differentials. There are of course local and global aspects to this structure. Besides there is the behaviour of an individual trajectory and the structure determined by entire subfamilies of trajectories. An Abelian or first order differential has an integral or primitive function; in general not single valued. In the case of a quadratic on the surface which differential one first has to take the square root and then integrate. The local integrals are only determined up to their sign and arbitrary additive constants. However it is this multivalued function which plays an important role in the theory: the trajectories are the images of the horizontals by single valued branches of its inverse. **Moduli of Families of Curves and Quadratic Differentials**

Galina Vasil'evna Kuz'mina, 1982  **$q$ -Stability Conditions via  $q$ -Quadratic Differentials for Calabi-Yau- $\mathbb{X}$  Categories** Akishi Ikeda, Yu Qiu, 2025-05-29 View the abstract **Moduli of Families of Curves and Quadratic Differentials** G. V. Kuz'Mina, 1982 *Handbook of Teichmüller Theory* Athanase Papadopoulos, 2007 The Teichmüller space of a surface was introduced by O. Teichmüller in the 1930s. It is a basic tool in the study of Riemann's moduli spaces and the mapping class groups. These objects are fundamental in several fields of

mathematics including algebraic geometry number theory topology geometry and dynamics The original setting of  
 Teichmüller theory is complex analysis The work of Thurston in the 1970s brought techniques of hyperbolic geometry to the  
 study of Teichmüller space and its asymptotic geometry Teichmüller spaces are also studied from the point of view of the  
 representation theory of the fundamental group of the surface in a Lie group  $G$  most notably  $G = \mathrm{PSL}(2, \mathbb{R})$  and  
 $G = \mathrm{PSL}(2, \mathbb{C})$  In the 1980s there evolved an essentially combinatorial treatment of the Teichmüller and moduli  
 spaces involving techniques and ideas from high energy physics namely from string theory The current research interests  
 include the quantization of Teichmüller space the Weil–Petersson symplectic and Poisson geometry of this space as well as  
 gauge theoretic extensions of these structures The quantization theories can lead to new invariants of hyperbolic 3 manifolds  
 The purpose of this handbook is to give a panorama of some of the most important aspects of Teichmüller theory The  
 handbook should be useful to specialists in the field to graduate students and more generally to mathematicians who want to  
 learn about the subject All the chapters are self contained and have a pedagogical character They are written by leading  
 experts in the subject     *Foliations on Surfaces* Igor Nikolaev, 2013-03-14 Foliations is one of the major concepts of modern  
 geometry and topology meaning a partition of topological space into a disjoint sum of leaves This book is devoted to geometry  
 and topology of surface foliations and their links to ergodic theory dynamical systems complex analysis differential and  
 noncommutative geometry This comprehensive book addresses graduate students and researchers and will serve as a  
 reference book for experts in the field     **Analysis and Mathematical Physics** Björn Gustafsson, Alexander  
 Vasil'ev, 2009-10-02 Our knowledge of objects of complex and potential analysis has been enhanced recently by ideas and  
 constructions of theoretical and mathematical physics such as quantum field theory nonlinear hydrodynamics material  
 science These are some of the themes of this refereed collection of papers which grew out of the first conference of the  
 European Science Foundation Networking Programme Harmonic and Complex Analysis and Applications held in Norway  
 2007     **Handbook of Complex Analysis** Reiner Kuhnau, 2002-12-05 Geometric Function Theory is a central part of  
 Complex Analysis one complex variable The Handbook of Complex Analysis Geometric Function Theory deals with this field  
 and its many ramifications and relations to other areas of mathematics and physics The theory of conformal and  
 quasiconformal mappings plays a central role in this Handbook for example a priori estimates for these mappings which arise  
 from solving extremal problems and constructive methods are considered As a new field the theory of circle packings which  
 goes back to P. Koebe is included The Handbook should be useful for experts as well as for mathematicians working in other  
 areas as well as for physicists and engineers A collection of independent survey articles in the field of Geometric Function  
 Theory Existence theorems and qualitative properties of conformal and quasiconformal mappings A bibliography including  
 many hints to applications in electrostatics heat conduction potential flows in the plane     Quasiconformal Teichmüller  
Theory Frederick P. Gardiner, Nikola Lakic, 2000 The Teichmüller space  $T(X)$  is the space of marked conformal structures on a

given quasiconformal surface  $X$  This volume uses quasiconformal mapping to give a unified and up to date treatment of  $T(X)$  Emphasis is placed on parts of the theory applicable to noncompact surfaces and to surfaces possibly of infinite analytic type The book provides a treatment of deformations of complex structures on infinite Riemann surfaces and gives background for further research in many areas These include applications to fractal geometry to three dimensional manifolds through its relationship to Kleinian groups and to one dimensional dynamics through its relationship to quasimetric mappings Many research problems in the application of function theory to geometry and dynamics are suggested

**Differential Geometry and Complex Analysis** I. Chavel, H.M. Farkas, 2012-12-06 This volume is dedicated to the memory of Harry Ernest Rauch who died suddenly on June 18 1979 In organizing the volume we solicited i articles summarizing Rauch's own work in differential geometry complex analysis and theta functions ii articles which would give the reader an idea of the depth and breadth of Rauch's researches interests and influence in the fields he investigated and iii articles of high scientific quality which would be of general interest In each of the areas to which Rauch made significant contribution pinching theorems Teichmüller theory and theta functions as they apply to Riemann surfaces there has been substantial progress Our hope is that the volume conveys the originality of Rauch's own work the continuing vitality of the fields he influenced and the enduring respect for and tribute to him and his accomplishments in the mathematical community Finally it is a pleasure to thank the Department of Mathematics of the Graduate School of the City University of New York for their logistical support James Rauch who helped us with the biography and Springer Verlag for all their efforts in producing this volume Isaac Chavel Hershel M Farkas Contents Harry Ernest Rauch Biographical Sketch VII Bibliography of the Publications of H E Rauch X Ph D Theses Written under the Supervision of H E Rauch XIII H E Rauch Geometrie Differentielle by M Berger

**Dictionary of Analysis, Calculus, and Differential Equations** Douglas N. Clark, 1999-12-15 Clear rigorous definitions of mathematical terms are crucial to good scientific and technical writing and to understanding the writings of others Scientists engineers mathematicians economists technical writers computer programmers along with teachers professors and students all have the occasional if not frequent need for comprehensible working definitions of mathematical expressions To meet that need CRC Press proudly introduces its Dictionary of Analysis Calculus and Differential Equations the first published volume in the CRC Comprehensive Dictionary of Mathematics More than three years in development top academics and professionals from prestigious institutions around the world bring you more than 2 500 detailed definitions written in a clear readable style and complete with alternative meanings and related references

**Discontinuous Groups and Riemann Surfaces** Leon Greenberg, 1974-04-21 Study 79 contains a collection of papers presented at the Conference on Discontinuous Groups and Riemann Surfaces at the University of Maryland May 21-25 1973 The papers by leading authorities deal mainly with Fuchsian and Kleinian groups Teichmüller spaces Jacobian varieties and quasiconformal mappings These topics are intertwined representing a common meeting of algebra geometry and analysis

**Handbook of**

**Dynamical Systems** A. Katok, B. Hasselblatt, 2005-12-17 This second half of Volume 1 of this Handbook follows Volume 1A which was published in 2002 The contents of these two tightly integrated parts taken together come close to a realization of the program formulated in the introductory survey Principal Structures of Volume 1A The present volume contains surveys on subjects in four areas of dynamical systems Hyperbolic dynamics parabolic dynamics ergodic theory and infinite dimensional dynamical systems partial differential equations Written by experts in the field The coverage of ergodic theory in these two parts of Volume 1 is considerably more broad and thorough than that provided in other existing sources The final cluster of chapters discusses partial differential equations from the point of view of dynamical systems Analysis Meets Geometry Mats Andersson, Jan Boman, Christer Kiselman, Pavel Kurasov, Ragnar Sigurdsson, 2017-09-04 This book is dedicated to the memory of Mikael Passare an outstanding Swedish mathematician who devoted his life to developing the theory of analytic functions in several complex variables and exploring geometric ideas first hand It includes several papers describing Mikael's life as well as his contributions to mathematics written by friends of Mikael's who share his attitude and passion for science A major section of the book presents original research articles that further develop Mikael's ideas and which were written by his former students and co authors All these mathematicians work at the interface of analysis and geometry and Mikael's impact on their research cannot be underestimated Most of the contributors were invited speakers at the conference organized at Stockholm University in his honor This book is an attempt to express our gratitude towards this great mathematician who left us full of energy and new creative mathematical ideas **Applications of Random Matrices in Physics** Édouard Brezin, 2006-03-03 Proceedings of the NATO Advanced Study Institute on Applications of Random Matrices in Physics Les Houches France 6-25 June 2004 **Complex Analysis and Dynamical Systems** Mark Agranovsky, Anatoly Golberg, Fiana Jacobzon, David Shoikhet, Lawrence Zalcman, 2018-01-31 This book focuses on developments in complex dynamical systems and geometric function theory over the past decade showing strong links with other areas of mathematics and the natural sciences Traditional methods and approaches surface in physics and in the life and engineering sciences with increasing frequency the Schramm Loewner evolution Laplacian growth and quadratic differentials are just a few typical examples This book provides a representative overview of these processes and collects open problems in the various areas while at the same time showing where and how each particular topic evolves This volume is dedicated to the memory of Alexander Vasiliev **Advances in Discrete Differential Geometry** Alexander I. Bobenko, 2016-08-12 This is one of the first books on a newly emerging field of discrete differential geometry and an excellent way to access this exciting area It surveys the fascinating connections between discrete models in differential geometry and complex analysis integrable systems and applications in computer graphics The authors take a closer look at discrete models in differential geometry and dynamical systems Their curves are polygonal surfaces are made from triangles and quadrilaterals and time is discrete Nevertheless the difference between the corresponding smooth curves surfaces and

classical dynamical systems with continuous time can hardly be seen This is the paradigm of structure preserving discretizations Current advances in this field are stimulated to a large extent by its relevance for computer graphics and mathematical physics This book is written by specialists working together on a common research project It is about differential geometry and dynamical systems smooth and discrete theories and on pure mathematics and its practical applications The interaction of these facets is demonstrated by concrete examples including discrete conformal mappings discrete complex analysis discrete curvatures and special surfaces discrete integrable systems conformal texture mappings in computer graphics and free form architecture This richly illustrated book will convince readers that this new branch of mathematics is both beautiful and useful It will appeal to graduate students and researchers in differential geometry complex analysis mathematical physics numerical methods discrete geometry as well as computer graphics and geometry processing

**Differential Topology and Quantum Field Theory** Charles Nash, 1991 The remarkable developments in differential topology and how these recent advances have been applied as a primary research tool in quantum field theory are presented here in a style reflecting the genuinely two sided interaction between mathematical physics and applied mathematics The author following his previous work Nash Sen Differential Topology for Physicists Academic Press 1983 covers elliptic differential and pseudo differential operators Atiyah Singer index theory topological quantum field theory string theory and knot theory The explanatory approach serves to illuminate and clarify these theories for graduate students and research workers entering the field for the first time Treats differential geometry differential topology and quantum field theory Includes elliptic differential and pseudo differential operators Atiyah Singer index theory topological quantum field theory string theory and knot theory Tackles problems of quantum field theory using differential topology as a tool     On Quadratic Differentials and Extremal Quasiconformal Mappings Kurt Strebel, 1967

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