

Ergebnisse der Mathematik und ihrer Grenzgebiete 91
A Series of Modern Surveys in Mathematics

Robert C. Gunning

Riemann Surfaces and Generalized Theta Functions



Springer-Verlag Berlin Heidelberg New York

Riemann Surfaces And Generalized Theta Functions

Ergebnisse Der Mathematik Und Ihrer Grenzgebiete

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Riemann Surfaces And Generalized Theta Functions Ergebnisse Der Mathematik Und Ihrer Grenzgebiete:

Riemann Surfaces and Generalized Theta Functions Robert C. Gunning, 2012-12-06 The investigation of the relationships between compact Riemann surfaces algebraic curves and their associated complex tori Jacobi varieties has long been basic to the study both of Riemann surfaces and of complex tori A Riemann surface is naturally imbedded as an analytic submanifold in its associated torus and various spaces of linear equivalence classes of divisors on the surface or equivalently spaces of analytic equivalence classes of complex line bundles over the surface classified according to the dimensions of the associated linear series or the dimensions of the spaces of analytic cross sections are naturally realized as analytic subvarieties of the associated torus One of the most fruitful of the classical approaches to this investigation has been by way of theta functions The space of linear equivalence classes of positive divisors of order $g+1$ on a compact connected Riemann surface M of genus g is realized by an irreducible $g+1$ dimensional analytic subvariety an irreducible hypersurface of the associated g dimensional complex torus $J(M)$ this hyperplane surface $W_{g+1}(M)$ is the image of the natural mapping $M \times J(M) \rightarrow J(M)$ and is $g+1$ birationally equivalent to the $g+1$ fold symmetric product $M^{(g+1)}$ of the Riemann surface M *A Course in Complex Analysis and Riemann Surfaces* Wilhelm Schlag, 2014-08-06 Complex analysis is a cornerstone of mathematics making it an essential element of any area of study in graduate mathematics Schlag's treatment of the subject emphasizes the intuitive geometric underpinnings of elementary complex analysis that naturally lead to the theory of Riemann surfaces The book begins with an exposition of the basic theory of holomorphic functions of one complex variable The first two chapters constitute a fairly rapid but comprehensive course in complex analysis The third chapter is devoted to the study of harmonic functions on the disk and the half plane with an emphasis on the Dirichlet problem Starting with the fourth chapter the theory of Riemann surfaces is developed in some detail and with complete rigor From the beginning the geometric aspects are emphasized and classical topics such as elliptic functions and elliptic integrals are presented as illustrations of the abstract theory The special role of compact Riemann surfaces is explained and their connection with algebraic equations is established The book concludes with three chapters devoted to three major results the Hodge decomposition theorem the Riemann-Roch theorem and the uniformization theorem These chapters present the core technical apparatus of Riemann surface theory at this level This text is intended as a detailed yet fast paced intermediate introduction to those parts of the theory of one complex variable that seem most useful in other areas of mathematics including geometric group theory dynamics algebraic geometry number theory and functional analysis More than seventy figures serve to illustrate concepts and ideas and the many problems at the end of each chapter give the reader ample opportunity for practice and independent study *Advances on Superelliptic Curves and Their Applications* L. Beshaj, T. Shaska, E. Zhupa, 2015-07-16 This book had its origins in the NATO Advanced Study Institute ASI held in Ohrid Macedonia in 2014 The focus of this ASI was the arithmetic of superelliptic curves and their application in different scientific areas including whether all the applications of

hyperelliptic curves such as cryptography mathematical physics quantum computation and diophantine geometry can be carried over to the superelliptic curves Additional papers have been added which provide some background for readers who were not at the conference with the intention of making the book logically more complete and easier to read but familiarity with the basic facts of algebraic geometry commutative algebra and number theory are assumed The book is divided into three sections The first part deals with superelliptic curves with regard to complex numbers the automorphisms group and the corresponding Hurwitz loci The second part of the book focuses on the arithmetic of the subject while the third addresses some of the applications of superelliptic curves

Complex Analysis 2 Eberhard Freitag, 2011-06-10 The book contains a complete self contained introduction to highlights of classical complex analysis New proofs and some new results are included All needed notions are developed within the book with the exception of some basic facts which can be found in the first volume There is no comparable treatment in the literature

Conformal Blocks, Generalized Theta Functions and the Verlinde Formula Shrawan Kumar, 2021-11-25 This book gives a complete proof of the Verlinde formula and of its connection to generalized theta functions

Moduli Spaces and Vector Bundles—New Trends Peter Gothen, Margarida Melo, Montserrat Teixidor i Bigas, 2024-07-18 This volume contains the proceedings of the VBAC 2022 Conference on Moduli Spaces and Vector Bundles New Trends held in honor of Peter Newstead's 80th birthday from July 25-29 2022 at the University of Warwick Coventry United Kingdom The papers focus on the theory of stability conditions in derived categories non reductive geometric invariant theory Brill Noether theory and Higgs bundles and character varieties The volume includes both survey and original research articles Most articles contain substantial background and will be helpful to both novices and experts

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