Discontinuous Groups and Automorphic Functions

Joseph Lehner

[Discontinuous Groups Automorphic Funct](#)

John Ratcliffe

Discontinuous Groups Automorphic Funct:

Discontinuous Groups and Automorphic Functions Joseph Lehner,1964-12-31 Much has been written on the theory of discontinuous groups and automorphic functions since 1880 when the subject received its first formulation The purpose of this book is to bring together in one place both the classical and modern aspects of the theory and to present them clearly and in a modern language and notation The emphasis in this book is on the fundamental parts of the subject The book is directed to three classes of readers graduate students approaching the subject for the first time mature mathematicians who wish to gain some knowledge and understanding of automorphic function theory and experts **Discontinuous groups and automorphic functions** Raymond Allen Shaparenko,1976 **Non-Euclidean Geometry in the Theory of Automorphic Functions** Jacques Hadamard,1999-01-01 This is the English translation of a volume originally published only in Russian and now out of print The book was written by Jacques Hadamard on the work of Poincare Poincare s creation of a theory of automorphic functions in the early 1880s was one of the most significant mathematical achievements of the nineteenth century It directly inspired the uniformization theorem led to a class of functions adequate to solve all linear ordinary differential equations and focused attention on a large new class of discrete groups It was the first significant application of non Euclidean geometry This unique exposition by Hadamard offers a fascinating and intuitive introduction to the subject of automorphic functions and illuminates its connection to differential equations a connection not often found in other texts A Short Course in Automorphic Functions Joseph Lehner,2015-01-21 Concise treatment covers basics of Fuchsian groups development of Poincar series and automorphic forms and the connection between theory of Riemann surfaces with theories of automorphic forms and discontinuous groups 1966 edition **An Introduction to the Theory of Automorphic Functions** Lester R. Ford,1915 *Lectures on the Theory of Automorphic Functions* Robert Fricke,Felix Klein,2017 **Discrete Groups and Automorphic Functions** W. J. Harvey (Ph. D.),William J. Harvey,London Mathematical Society,1977 **A Course in Fourier's Analysis and Periodogram Analysis for the Mathematical Laboratory** George Alexander Carse,George Shearer,1915 **Foundations of Hyperbolic Manifolds** John Ratcliffe,2013-03-09 This book is an exposition of the theoretical foundations of hyperbolic manifolds It is intended to be used both as a textbook and as a reference Particular emphasis has been placed on readability and completeness of ar gument The treatment of the material is for the most part elementary and self contained The reader is assumed to have a basic knowledge of algebra and topology at the first year graduate level of an American university The book is divided into three parts The first part consisting of Chap ters 1 7 is concerned with hyperbolic geometry and basic properties of discrete groups of isometries of hyperbolic space The main results are the existence theorem for discrete reflection groups the Bieberbach theorems and Selberg s lemma The second part consisting of Chapters 8 12 is de voted to the theory of hyperbolic manifolds The main results are Mostow s rigidity theorem and the determination of the structure of geometrically finite hyperbolic

manifolds The third part consisting of Chapter 13 in tegrates the first two parts in a development of the theory of hyperbolic orbifolds The main results are the construction of the universal orbifold covering space and Poincare s fundamental polyhedron theorem **Automorphic Functions** Lester R. Ford,1929 **Theory of Functions of a Complex Variable** Andrew Russell Forsyth,1893 *Modular Forms* Henri Cohen,Fredrik Strömberg,2017-08-02 The theory of modular forms is a fundamental tool used in many areas of mathematics and physics It is also a very concrete and fun subject in itself and abounds with an amazing number of surprising identities This comprehensive textbook which includes numerous exercises aims to give a complete picture of the classical aspects of the subject with an emphasis on explicit formulas After a number of motivating examples such as elliptic functions and theta functions the modular group its subgroups and general aspects of holomorphic and nonholomorphic modular forms are explained with an emphasis on explicit examples The heart of the book is the classical theory developed by Hecke and continued up to the Atkin Lehner Li theory of newforms and including the theory of Eisenstein series Rankin Selberg theory and a more general theory of theta series including the Weil representation The final chapter explores in some detail more general types of modular forms such as half integral weight Hilbert Jacobi Maass and Siegel modular forms Some gems of the book are an immediately implementable trace formula for Hecke operators generalizations of Haberland s formulas for the computation of Petersson inner products W Li s little known theorem on the diagonalization of the full space of modular forms and explicit algorithms due to the second author for computing Maass forms This book is essentially self contained the necessary tools such as gamma and Bessel functions Bernoulli numbers and so on being given in a separate chapter **Theory of Differential Equations: (vol. V-VI) Partial differential equations. 1906** Andrew Russell Forsyth,1902 *Algebraic Structures of Symmetric Domains* Ichiro Satake,2014-07-14 This book is a comprehensive treatment of the general algebraic theory of symmetric domains Originally published in 1981 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 Collected Papers III Goro Shimura,2002-10-31 In 1996 the AMS awarded Goro Shimura the Steele Prize for Lifetime Achievement To Goro Shimura for his important and extensive work on arithmetical geometry and automorphic forms concepts introduced by him were often seminal and fertile ground for new developments as witnessed by the many notations in number theory that carry his name and that have long been familiar to workers in the field 103 of Shimura s most important papers are collected in four volumes Volume III contains his mathematical papers from 1978 to 1988 and some notes to the articles *Bulletin of the American Mathematical Society* American Mathematical Society,1903 **(vol. V-VI) Partial differential equations. 1906** Andrew Russell Forsyth,1902

<u>Bulletin of the New York Mathematical Society</u> ,1894   **Bulletin (new Series) of the American Mathematical Society** ,1894   <u>The Madison Colloquium 1913</u> American Mathematical Society. Colloquium,Leonard Eugene Dickson,William Fogg Osgood,1914

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Table of Contents Discontinuous Groups Automorphic Funct

1. Understanding the eBook Discontinuous Groups Automorphic Funct
    - The Rise of Digital Reading Discontinuous Groups Automorphic Funct
    - Advantages of eBooks Over Traditional Books
2. Identifying Discontinuous Groups Automorphic Funct
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Discontinuous Groups Automorphic Funct
    - User-Friendly Interface
4. Exploring eBook Recommendations from Discontinuous Groups Automorphic Funct

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