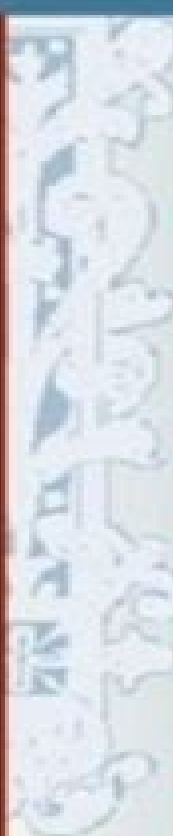


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Non-Euclidean Geometry in the Theory of Automorphic Functions

Jacques Hadamard

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and
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Non Euclidean Geometry In The Theory Of Automorphic Functions

C. Davis, B. Grünbaum, F.A. Sherk



Non Euclidean Geometry In The Theory Of Automorphic Functions:

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

Non-Euclidean Geometry in the Theory of Automorphic Functions Jacques Hadamard, 1999 [An Introduction to the Theory of Automorphic Functions](#) Lester R. Ford, 1915 **A Simple Non-Euclidean Geometry and Its Physical Basis** B Gordon, I M Yaglom, A Shenitzer, 1979-02-28 [Discontinuous Groups of Isometries in the Hyperbolic Plane](#) Werner Fenchel, Jakob Nielsen, 2011-05-12 This is an introductory textbook on isometry groups of the hyperbolic plane Interest in such groups dates back more than 120 years Examples appear in number theory modular groups and triangle groups the theory of elliptic functions and the theory of linear differential equations in the complex domain giving rise to the alternative name Fuchsian groups The current book is based on what became known as the famous Fenchel Nielsen manuscript Jakob Nielsen 1890 1959 started this project well before World War II and his interest arose through his deep investigations on the topology of Riemann surfaces and from the fact that the fundamental group of a surface of genus greater than one is represented by such a discontinuous group Werner Fenchel 1905 1988 joined the project later and overtook much of the preparation of the manuscript The present book is special because of its very complete treatment of groups containing reversions and because it avoids the use of matrices to represent Moebius maps This text is intended for students and researchers in the many areas of mathematics that involve the use of discontinuous groups

Non-Euclidean Geometries András Prékopa, Emil Molnár, 2006-06-03 From nothing I have created a new different world wrote J nos Bolyai to his father Wolfgang Bolyai on November 3 1823 to let him know his discovery of non Euclidean geometry as we call it today The results of Bolyai and the co discoverer the Russian Lobachevskii changed the course of mathematics opened the way for modern physical theories of the twentieth century and had an impact on the history of human culture The papers in this volume which commemorates the 200th anniversary of the birth of J nos Bolyai were written by leading scientists of non Euclidean geometry its history and its applications Some of the papers present new discoveries about the life and works of J nos Bolyai and the history of non Euclidean geometry others deal with geometrical axiomatics polyhedra fractals hyperbolic Riemannian and discrete geometry tilings visualization and applications in physics

An Introduction to the Theory of Automorphic Functions Lester R. Ford, 2016-01-31 This is an excellent tract on what is

now an extensive subject The main points are very clearly put room has even been found for an outline of non Euclidean geometry and the expression of co ordinates of points on an algebraic curve as one valued functions There is a bibliography which seems to include most of the books and papers of really first rate importance and there is a sufficient number of diagrams English speaking students ought now at any rate to appreciate Poincaré's wonderful discoveries in this field Nature Vol 96 *Automorphic Functions* Lester R. Ford, 1929 **The Scientific Legacy of Poincaré** Éric Charpentier, Etienne Ghys, Annick Lesne, 2010 Henri Poincaré 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 Poincaré's extraordinary work Each chapter treats one theme presenting Poincaré'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 Poincaré an inexhaustible source of inspiration for researchers as illustrated by the Fields Medal awarded in 2006 to Grigori Perelman for his proof of the Poincaré 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 "Golden" Non-euclidean Geometry, The: Hilbert's Fourth Problem, "Golden" Dynamical Systems, And The Fine-structure Constant Alexey Stakhov, Samuil Aranson, 2016-07-14 This unique book overturns our ideas about non Euclidean geometry and the fine structure constant and attempts to solve long standing mathematical problems It describes a general theory of recursive hyperbolic functions based on the Mathematics of Harmony and the golden silver and other metallic proportions Then these theories are used to derive an original solution to Hilbert's Fourth Problem for hyperbolic and spherical geometries On this journey the book describes the golden qualitative theory of dynamical systems based on metallic proportions Finally it presents a solution to a Millennium Problem by developing the Fibonacci special theory of relativity as an original physical mathematical solution for the fine structure constant It is intended for a wide audience who are interested in the history of mathematics non Euclidean geometry Hilbert's mathematical problems dynamical systems and Millennium Problems See Press Release Application of the mathematics of harmony Golden non Euclidean geometry in modern math **IUTAM Symposium on Exploiting Nonlinear Dynamics for Engineering Systems** Ivana Kovacic, Stefano Lenci, 2019-07-24 This is the proceedings of the IUTAM Symposium on Exploiting Nonlinear Dynamics for Engineering Systems that was held in Novi Sad Serbia from July 15th to 19th 2018 The appearance of nonlinear phenomena

used to be perceived as dangerous with a general tendency to avoid them or control them This perception has led to intensive research using various approaches and tailor made tools developed over decades However the Nonlinear Dynamics of today is experiencing a profound shift of paradigm since recent investigations rely on a different strategy which brings good effects of nonlinear phenomena to the forefront This strategy has a positive impact on different fields in science and engineering such as vibration isolation energy harvesting micro nano electro mechanical systems etc Therefore the ENOLIDES Symposium was devoted to demonstrate the benefits and to unlock the potential of exploiting nonlinear dynamical behaviour in these but also in other emerging fields of science and engineering This proceedings is useful for researchers in the fields of nonlinear dynamics of mechanical systems and structures and in Mechanical and Civil Engineering

The Significance of Dreams Peter Fonagy, Horst Kachele, Marianne Leuzinger-Bohleber, David Taylor, 2018-03-22 This book looks at dreams from a twenty first century perspective It takes its inspiration from Freud's insights but pursues psychoanalytic interest into both neuroscience and the modern psychoanalytic consulting room The book looks at laboratory research on dreaming alongside the modern clinical use of dreams and links together clinical and empirical research integrating classical ideas with the plurality of psychoanalytic theoretical constructs available to modern researchers Psychoanalysts writing about dreams have traditionally represented the cutting edge of clinical and theoretical development and this book is no exception Many of the contributions as well as the epistemological position taken by the writers represent a kind of radical openness to new ways of thinking about the clinical situation and about theory In line with the ambition of the editors this volume represents an integration of theories and disciplines and a scientific context for modern psychoanalysis The link between clinical research and extraclinical research via the royal road of dreaming is a theme that runs through all the contributions

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 **Noneuclidean Tessellations and Their Groups**, 1974-10-18 Noneuclidean Tessellations and Their Groups

Felix Klein David E. Rowe, 2025-05-29 This book presents a historical account of Felix Klein's Comparative Reflections on Recent Research in Geometry 1872 better known as his Erlangen Program Originally conceived and written when Klein was collaborating with Sophus Lie this bold essay initially made little impression on contemporary researchers Decades later however it eventually became a famous classic Eminent mathematicians hailed Klein's main message the role of invariants of transformation groups in geometry as presaging major developments in mathematics and physics The first part of this book focuses on the prehistory surrounding Klein's Erlangen Program stressing the motivations that led Klein to write it The core of the book Part II then presents a new translation of Klein's original text followed by detailed textual analysis aimed at guiding the reader through its rather terse and opaque prose Part III deals with its complicated reception history treated in four periods spanning the years from 1872 to 1930 This culminated during Klein's lifetime with his efforts to promote the Erlangen Program as a framework for interpreting Einstein's theory of relativity After his death in 1925 the viability of this framework became a contentious issue among leading differential geometers Part IV looks back on the transformations in mathematics that led to a modernized interpretation of Klein's message The book also explores in depth how the growing fame of the Erlangen Program undermined Klein's friendship with Sophus Lie leading to a dramatic public break between them in 1893 Beyond the Erlangen Program itself this book deals with many of Felix Klein's other works As an introduction to a largely forgotten world of ideas this study will appeal not only to experts but also to graduate students and all those with a serious interest in the history of modern mathematics *The Geometric Vein* C. Davis, B. Grünbaum, F.A. Sherk, 2012-12-06 Geometry has been defined as that part of mathematics which makes appeal to the sense of sight but this definition is thrown in doubt by the existence of great geometers who were blind or nearly so such as Leonhard Euler Sometimes it seems that geometric methods in analysis so called consist in having recourse to notions outside those apparently relevant so that geometry must be the joining of unlike strands but then what shall we say of the importance of axiomatic programmes in geometry where reference to notions outside a restricted repertoire is banned Whatever its definition geometry clearly has been more than the sum of its results more than the consequences of some few axiom sets It has been a major current in mathematics with a distinctive approach and a distinctive spirit A current furthermore which has not been constant In the 1930s after a period of pervasive prominence it appeared to be in decline even passe These same years were those in which H S M Coxeter was beginning his scientific work Undeterred by the unfashionability of geometry Coxeter pursued it with devotion and inspiration By the 1950s he appeared to the broader mathematical world as a consummate practitioner of a

peculiar out of the way art Today there is no longer anything that out of the way about it Coxeter has contributed to exemplified we could almost say presided over an unanticipated and dramatic revival of geometry *The London, Edinburgh and Dublin Philosophical Magazine and Journal of Science* ,1916 **London, Edinburgh and Dublin Philosophical Magazine and Journal of Science** ,1916 *Philosophical Magazine* ,1916 *Mathematics Of Harmony As A New Interdisciplinary Direction And "Golden" Paradigm Of Modern Science - Volume 1: The Golden Section, Fibonacci Numbers, Pascal Triangle, And Platonic Solids* Alexey Stakhov,2020-05-05 Volume I is the first part of the 3 volume book *Mathematics of Harmony as a New Interdisciplinary Direction and Golden Paradigm of Modern Science* Mathematics of Harmony rises in its origin to the harmonic ideas of Pythagoras Plato and Euclid this 3 volume book aims to promote more deep understanding of ancient conception of the Universe Harmony the main conception of ancient Greek science and implementation of this conception to modern science and education This 3 volume book is a result of the authors research in the field of Fibonacci numbers and the Golden Section and their applications It provides a broad introduction to the fascinating and beautiful subject of the Mathematics of Harmony a new interdisciplinary direction of modern science This direction has many unexpected applications in contemporary mathematics a new approach to a history of mathematics the generalized Fibonacci numbers and the generalized golden proportions the generalized Binet s formulas theoretical physics new hyperbolic models of Nature and computer science algorithmic measurement theory number systems with irrational bases Fibonacci computers ternary mirror symmetrical arithmetic The books are intended for a wide audience including mathematics teachers of high schools students of colleges and universities and scientists in the field of mathematics theoretical physics and computer science The book may be used as an advanced textbook by graduate students and even ambitious undergraduates in mathematics and computer science

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