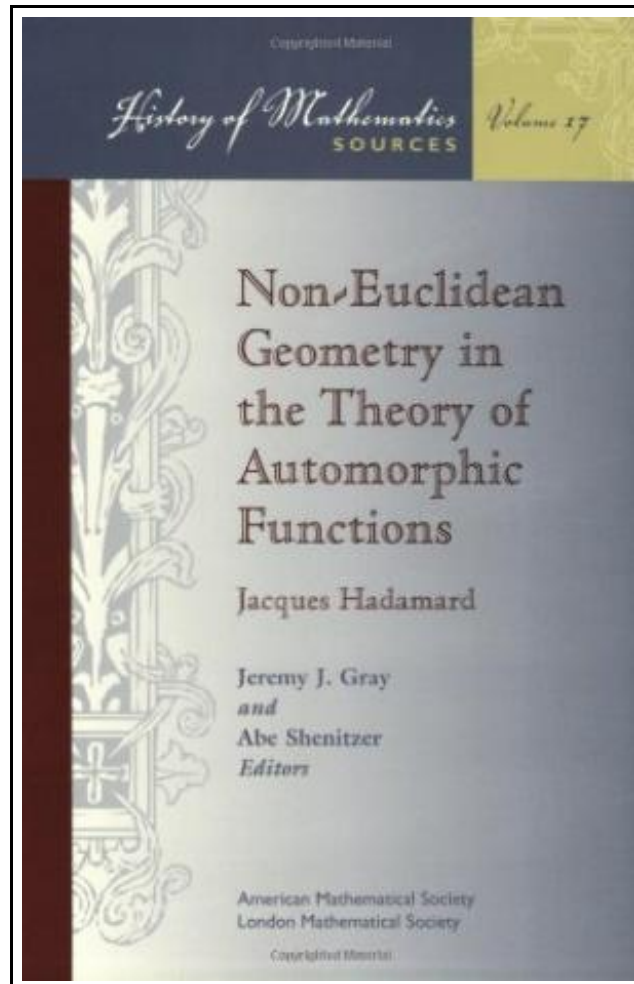# Non-euclidean Geometry in the Theory of Automorphic Functions

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Reviews

Very good e-book and useful one. It is actually rally fascinating throgh studying period. I found out this publication from my i and dad recommended this ebook to understand.
(Kassandra Ledner)

NON-EUCLIDEAN GEOMETRY IN THE THEORY OF AUTOMORPHIC FUNCTIONS

American Mathematical Society. Paperback. Book Condition: new. BRAND NEW, Non-euclidean Geometry in the Theory of Automorphic Functions, Jacques Hadamard, Jeremy Gray, Abe Shenitzer, 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. The implications of these discoveries continue to be important to this day in numerous different areas of mathematics. Hadamard begins with hyperbolic geometry, which he compares with plane and spherical geometry. He discusses the corresponding isometry groups, introduces the idea of discrete subgroups, and shows that the corresponding quotient spaces are manifolds.In Chapter 2 he presents the appropriate automorphic functions, in particular, Fuchsian functions. He shows how to represent Fuchsian functions as quotients, and how Fuchsian functions invariant under the same group are related, and indicates how these functions can be used to solve differential equations. Chapter 4 is devoted to the outlines of the more complicated Kleinian case. Chapter 5 discusses algebraic functions and linear algebraic differential equations, and the last chapter sketches the theory of Fuchsian groups and geodesics. 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. This volume is one of an informal sequence of works within the ""History of Mathematics"" series. Volumes in this subset,...

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