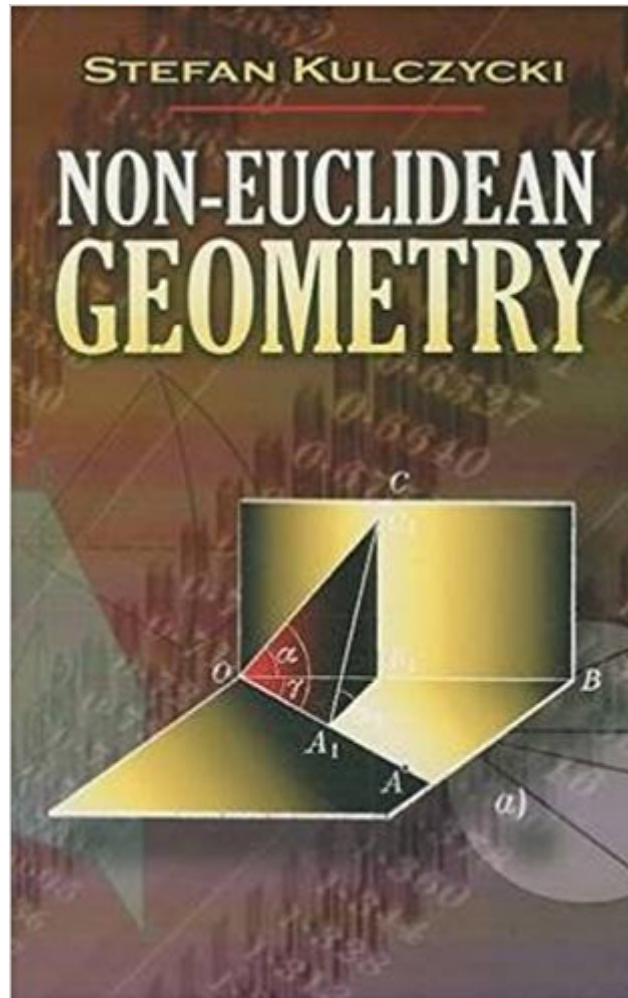




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Non-Euclidean Geometry (Dover Books On Mathematics)



Synopsis

This accessible approach features two varieties of proofs: stereometric and planimetric, as well as elementary proofs that employ only the simplest properties of the plane. A short history of geometry precedes a systematic exposition of the principles of non-Euclidean geometry. Starting with fundamental assumptions, the author examines the theorems of Hjelmslev, mapping a plane into a circle, the angle of parallelism and area of a polygon, regular polygons, straight lines and planes in space, and the horosphere. Further development of the theory covers hyperbolic functions, the geometry of sufficiently small domains, spherical and analytical geometry, the Klein model, and other topics. Appendixes include a table of values of hyperbolic functions.

Book Information

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Customer Reviews

My lower rating for this book is on account of my failed hope that it would serve as an effective primer on non-Euclidean geometry. It's a thin volume that attempts to cover a lot of ground, and does so with -- not unexpectedly -- mixed results. If you're a relatively newcomer to the mathematics of NEG, I wouldn't rate this an especially useful guide to the subfield. There's a lot that Kulczycki necessarily takes for granted. But for anyone interested in an NEG refresher I imagine this book might fit the bill well. So: 3 stars from this novice reader. But I can understand why other readers might rate the book more highly (as, indeed, the one other reviewer on this page did).

Likely one of the best of the introduction books. Notice the warning word Introduction we got in

College indicating you are about to be hit by a telephone pole. Wide subject and nice.

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