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Beginning with the ancient sources,
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The text serves as both an introduction to the classical differential geometry of curves and surfaces and as a history of the non-Euclidean plane. The book begins with the theorems of non-Euclidean geometry, then introduces the methods of differential geometry and develops them towards the goal of constructing models of the hyperbolic plane.

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In this introduction to differential geometry, the parts are united with all of their interrelations, motivated by the history of the parallel postulate. Beginning with the ancient sources, the author first explores synthetic methods in Euclidean and non-Euclidean geometry and then introduces differential geometry in its classical formulation, leading to the modern formulation on manifolds ...

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gave way to coordinate-free constructions that do the work of tensor calculus globally." (page 267).

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The divide between undergraduate differential geometry and graduate

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geometry is too great. A beginning graduate student could walk into a course on differentiable manifolds and Riemannian Geometry with no undergraduate diff geometry and be fine (as I did), but it is tough road since much of the intuition and motivation is missing.

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This text is intended for an advanced undergraduate (having taken linear algebra and multivariable calculus). It provides the necessary background for a more abstract course in differential geometry. The inclusion of diagrams is done without sacrificing

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