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Differential geometry is a mathematical discipline that uses the techniques of differential calculus, integral calculus, linear algebra and multilinear algebra to study problems in geometry. The theory of plane and space curves and surfaces in the three-dimensional Euclidean space formed the basis for development of differential geometry during the 18th century and the 19th century. Since the late 19th century, differential geometry has grown into a field concerned more generally with the geomet [Differential Geometry, Gauge Theories, and Gravity ...](#)

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Mathematical Physics | Department of Mathematics Differential Geometry and Mathematical Physics: Part I. Manifolds, Lie Groups and Hamiltonian Systems (Theoretical and Mathematical Physics)

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Differential geometry - Wikipedia

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Differential Geometry in Physics Gabriel Lugo Department of Mathematical Sciences and Statistics University of North Carolina at Wilmington c 1992, 1998, 2006, 2020. i This document was reproduced by the University of North Carolina at Wilmington from a camera ready copy supplied by the authors.

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