



# A New Approach to Differential Geometry using Clifford's Geometric Algebra

*John Snygg*

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Differential geometry is the study of the curvature and calculus of curves and surfaces. *A New Approach to Differential Geometry using Clifford's Geometric Algebra* simplifies the discussion to an accessible level of differential geometry by introducing Clifford algebra. This presentation is relevant because Clifford algebra is an effective tool for dealing with the rotations intrinsic to the study of curved space.

Complete with chapter-by-chapter exercises, an overview of general relativity, and brief biographies of historical figures, this comprehensive textbook presents a valuable introduction to differential geometry. It will serve as a useful resource for upper-level undergraduates, beginning-level graduate students, and researchers in the algebra and physics communities.

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