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This book is an exposition of semi-Riemannian geometry (also called pseudo-Riemannian geometry)--the study of a smooth manifold furnished with a metric tensor of arbitrary signature. The principal special cases are Riemannian geometry, where the metric is positive definite, and Lorentz geometry. For many years these two geometries have developed almost independently: Riemannian geometry ...

The geometrical study of a surface M in Euclidean space R^3 separates into three distinct categories: the intrinsic geometry of M , the shape of M in R^3 , and the Euclidean geometry of R^3 . Geometry of R^3 is based on the dot product and consists of those concepts preserved by the isometries of R^3 . The chapter emphasizes that the geometry of M is also based on the dot product—applied only to vectors tangent to M —and that it consists of those features preserved by the isometries of M .

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Barrett O'Neill. 3.91 · Rating details · 34 ratings · 3 reviews. Written primarily for students who have completed the standard first courses in calculus and linear algebra, ELEMENTARY DIFFERENTIAL GEOMETRY, REVISED SECOND EDITION, provides an introduction to the geometry of curves and surfaces. The Second Edition maintained the accessibility of the first, while providing an introduction to the use of computers and expanding discussion.

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Elementary Differential Geometry focuses on the elementary account of the geometry of curves and surfaces.

The book first offers information on calculus on Euclidean space and frame fields. Topics include structural equations, connection forms, frame fields, covariant derivatives, Frenet formulas, curves, mappings, tangent vectors, and differential forms. The publication then examines ...

Elementary Differential Geometry (Paperback), by Andrew Pressley, published by Springer, Corr. 2nd printing edition (September 18, 2002), ISBN-10: 1852331526. Elementary Differential Geometry, Revised 2nd Edition, Second Edition (Hardcover), by Barrett O'neill, published by Academic Press; 2 edition (March 27, 2006), ISBN-10: 0120887355.

This course is an introduction to differential geometry, which can be described as studying the geometric properties of a curved space using calculus. The focus will be on the geometry of curves and surfaces in 3-space but with an eye on how to extend the concepts to abstract geometric spaces. After building the foundations of the subject, specific topics to be covered include the Gauss-Bonnet theorem, which links the differential geometric properties of a surface to its topological ...

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Barrett O'Neill (1924– 16 June 2011) was an American mathematician. He is known for contributions to differential geometry, including two widely-used textbooks on its foundational theory. He was the author of eighteen research articles, the last of which was published in 1973.

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