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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.*

Barrett O'Neill - Wikipedia

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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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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 ...

MATH-UA 377

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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.

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

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