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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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Elementary Differential Geometry, Revised 2nd Edition ...

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

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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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Thomas Barthelmé - Math 341- Differential geometry  
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.

640:432:01 Differential Geometry - Rutgers University  
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Differential Geometry

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