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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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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.

640:432:01 Differential Geometry - Rutgers University

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Change of parameters, differentiable functions on surfaces The tangent plane; The differential of a map, vector fields, the first fundamental form. Gauss map, second fundamental form, normal curvature, principal curvature and principal directions, asymptotic directions. Gauss map in local coordinates. Covariant derivative, geodesics.

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