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 $x dy \wedge dz + y dz \wedge dx + z dx \wedge dy = d(\sin \theta) \wedge d\phi$
 $x dy \wedge dz + y dz \wedge dx + z dx \wedge dy = d(\sin \theta) \wedge d\phi$. Think: alternating (0, k) (0, k) -tensors. Exterior Derivative. The exterior derivative is an anti-derivation $d^2 = 0$ of degree $+ 1 + 1 + 1$ that makes this a (co)chain complex.

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Linear algebra forms the skeleton of tensor calculus and differential geometry. We recall a few basic definitions from linear algebra, which will play a pivotal role throughout this course.

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" A comprehensive introduction to differential geometry " , Michael Spivak,1970, Publish or Perish ... In this case, we view vectors and tensors at a point as (generalised) differential operators on the space of functions on the manifold, and thus avoid the need to talk about their specific representations in a coordinate system.

[Lewis Smith - A gentle introduction to information geometry](#)
One approach that is common in differential geometry is to define tensors relative to a fixed (finite-dimensional) vector space V , which is usually taken to be a particular vector space of some geometrical significance like the tangent space to a manifold. In this approach, a type (p, q) tensor T is defined as a multilinear map,

[Tensor - Wikipedia](#)
This hard-back Dover book "The Absolute Differential Calculus: Calculus of Tensors" (ISBN 978-0-486-44637-0) is of limited value now, and I think that the \$70 RRP is a bit excessive, but it is interesting to see how DG was understood when it was more a branch of classical analysis than a branch of geometry or topology. The title indicates clearly the old way of thinking, namely that DG was a branch of calculus (i.e. classical analysis).

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This book presents tensors and differential geometry in a comprehensive and approachable manner, providing a bridge from the place where physics and engineering mathematics end, and the place where tensor analysis begins. Among the topics examined are tensor analysis, elementary differential geometry of moving surfaces, and k-differential forms.

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