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~~Introduction to Tensor~~ Riemann geometry -- covariant

derivative Tensor Calculus 20: The Abstract Covariant Derivative (Levi-Civita Connection) curves in space//tangent

on the space curve//differential geometry//bsc 3// What's a

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~~Tensor Calculus 17: The Covariant Derivative (flat space)~~

~~Divergence and curl: The language of Maxwell's equations, fluid flow, and more~~ Non Euclidean Geometry Classroom Aid

~~- Riemannian Curvature Tensor Einstein's Field Equations of~~

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Torsion Tensor Signed curvature of a plane curve.

Lec 06+07, Differential Geometry. Tensor Calculus 15:

Geodesics and Christoffel Symbols (extrinsic geometry)

Tensor Calculus 22: Riemann Curvature Tensor Geometric Meaning (Holonomy + Geodesic Deviation)

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$x dy \wedge dz + y dz \wedge dx + z dx \wedge dy =$

$d \theta \wedge dz = \sin \theta d \theta \wedge d \phi.$

Think: alternating $(0, k) (0, k) (0, k)$ -tensors. Exterior

Derivative. The exterior derivative is an anti-derivation $d d d$

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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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

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specific representations in a coordinate system.

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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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