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Calculus 12: The Metric

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Relativity 7b - differential
geometry ~~Lecture 02:~~

~~Introduction to Tensor~~

Riemann geometry --

covariant derivative Tensor

Calculus 20: The Abstract

Covariant Derivative (Levi-

Civita Connection) curves in

space//tangent on the space

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Tensor? Tensors Explained

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~~Intuitively: Covariant,
Contravariant, Rank Einstein
Field Equations - for
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17: The Covariant Derivative
(flat space) Divergence and
curl: The language of
Maxwell's equations, fluid
flow, and more Non Euclidean
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Riemannian Curvature Tensor
Einstein's Field Equations
of General Relativity
Explained Einstein's General
Theory of Relativity |
Lecture 1 Tensor Calculus
21: Lie Bracket, Flow,
Torsion Tensor Signed
curvature of a plane curve,
Lec 06+07, Differential
Geometry. Tensor Calculus
15: Geodesics and~~

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Christoffel Symbols
(extrinsic geometry)

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

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**Transformations and the
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What is a manifold?

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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 $(0, k)$
 $(0, k)$ -tensors.

Exterior Derivative. The
exterior derivative is an
anti-derivation $d^2 = 0$ of
degree $+1$ that makes
this a (co)chain complex.

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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.

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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

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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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moving surfaces, and k-
differential forms.

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