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For a Euclidean manifold whose metric tensor field is independent of time, Cartesian tensors and general tensors represent two different sets of tools, either of which can be used in applications. For most

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purposes, Cartesian tensors are simpler to use and have been widely used in the literature on elasticity, hydrodynamics, and continuum ...

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Below are some educational books and textbooks about tensor algebra , tensor analysis , and applications in physics

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**What are some good resources for self-studying tensor ...**

The first 17 chapters take one from vector spaces to tensors and the exterior algebra of Grassmann, and then on to topological



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For some mathematical applications, a more abstract approach is sometimes useful. This can be achieved by defining tensors in terms of elements of tensor products of vector spaces, which in turn are defined through a universal property. A type  $(p, q)$  tensor is defined in this context as an element

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of the tensor product of

vector spaces,  $\in \otimes \dots$   
 $\otimes \square \otimes * \otimes \dots \otimes * \square$ .

## Tensor - Wikipedia

Vector spaces

--Multilinear mappings  
and dual spaces

--Tensor product  
spaces --Tensors

--Symmetric and skew-  
symmetric tensors

--Exterior (Grassmann)  
algebra --The tangent

map of real Cartesian  
spaces --Topological

spaces --Differentiable

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manifolds

--Submanifolds --Vector fields, 1-forms and other tensor fields  
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(space or manifold).

Tensor fields are used in differential geometry, algebraic geometry, general relativity, in the analysis of stress and strain in materials, and in numerous applications in the physical sciences.

## **Tensor field - Wikipedia**

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A pseudo-Riemannian manifold  $(M, g)$  is a differentiable manifold equipped with an everywhere non-degenerate, smooth, symmetric metric tensor. Such a metric is called a pseudo-

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Riemannian metric .  
Applied to a vector  
field, the resulting  
scalar field value at  
any point of the  
manifold can be  
positive, negative or  
zero.

**Pseudo-Riemannian  
manifold - Wikipedia**

in applications to the  
spectral geometry of  
complex manifolds as  
is clearly explained in  
[4]. Our main result is  
that the invariants

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described above are given by contractions in the components of the curvature and torsion tensors of the canonical Hermitian connection and their covariant derivatives with respect

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