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Tensor Calculus 15: Geodesics and Christoffel Symbols (extrinsic geometry)

I tried learning tensor analysis from the above two categories but, for the most part, failed, i.e., learned the rules of moving indices around but had no real idea as to what I was actually doing. This brings me to Pavel Grinfeld's "Introduction to Tensor Analysis and the Calculus of Moving Surfaces" book, which is simply the best.

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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. Reminder A vector space V over the field K (\mathbb{R} or \mathbb{C}) is a set of objects that can be added and multiplied by scalars, such

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It is a tensor because it does so in a linear fashion, at each point mapping a vector to another vector. If you're interested in general relativity and differential geometry, consider also picking up some differential geometry textbooks. I recommend Semi-Riemannian Geometry, with Applications to Relativity by Barrett O'Neill. (As a plus, if by ...

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KEY WORDS: Curve, Frenet frame, curvature, torsion, hypersurface, fundamental forms, principal curvature, Gaussian curvature, Minkowski curvature, manifold, tensor field, connection, geodesic curve SUMMARY: The aim of this textbook is to give an introduction to differential geometry. It is based on the lectures given by the author at Eotvos

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