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Tensor Analysis and Elementary Differential Geometry for ...

Tensor analysis per se seems to consist only of techniques for calculations with indexed quantities. It lacks a body of deep results that are transferrable to other contexts. The exterior calculus does have such a body of results, and it provides a more efficient derivation of results in, for example, Riemannian geometry.

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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.

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andElementary Differential Geometryfor Physicists and Engineers 41 Springer. Contents 1 General Basis and Bra-Ket Notation 1 1.1 Introduction to General Basis and Tensor Types 1 1.2 General Basis in Curvilinear Coordinates 2 1.2.1 Orthogonal Cylindrical Coordinates 5 1.2.2 Orthogonal Spherical Coordinates 8 1.3 Eigenvalue Problem of aLinear Coupled Oscillator 11 1.4 Notation of Bra and Ket

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Lectures on Differential Geometry -
mysite.science.uottawa.ca

To the student This is a collection of lecture notes which I put together while teaching courses on manifolds, tensor analysis, and differential geometry.

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Tensors, differential geometry, differential forms, and Dirac notation are very useful advanced mathematical tools in many fields of modern physics and computational engineering. They are involved in special and general relativity physics, quantum mechanics, cosmology, electrodynamics, computational fluid dynamics (CFD), and continuum mechanics.

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