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elements of tensor calculus pdf

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 of the tensor product of vector spaces, $\hat{V}^{\otimes p} \otimes \hat{V}^{\otimes q}$.

Tensor - Wikipedia

1 The index notation Before we start with the main topic of this booklet, tensors, we will first introduce a new notation for vectors and matrices, and their algebraic manipulations: the index

Kees Dullemond & Kasper Peeters

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Introduction to Tensor Calculus, Relativity and Cosmology

For now, consider 3d space. A point P in 3d space (or its position vector r) can be defined using Cartesian coordinates (x, y, z) [equivalently written (x_1, x_2, x_3)], by $r = x e_x + y e_y + z e_z$, where e_x, e_y, e_z are the standard basis vectors. It can also be defined by its curvilinear coordinates (q_1, q_2, q_3) if this triplet of numbers defines a single point in an unambiguous way.

Curvilinear coordinates - Wikipedia

An authorised reissue of the long out of print classic textbook, Advanced Calculus by the late Dr Lynn Loomis and Dr Shlomo Sternberg both of Harvard University has been a revered but hard to find textbook for the advanced calculus course for decades.

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