

Re: Seeking diagrammatic tensor notation tutorial or reference

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In article <j_Y5g.105\$Qq.10@xxxxxxxxxxxxxxxxxxxxx>, "Herb Martin" <news@xxxxxxxxxxxxxxxx> wrote:

I am seeking diagrammatic tensor notation tutorial or reference preferably online or downloadable.

Online, look through John Baez's website,

<http://math.ucr.edu/home/baez/>

He writes about that from time to time in this This Week's Finds series (although I don't know which issues), and has written some related papers. You may be able to find some in his "Serious Stuff" page as well as his "Quantum Gravity Seminar". The latter is probably your best bet for an intro.

In "The Road to Reality" Penrose introduces this diagramming method but largely hand waves passed the rules, syntax, etc.

I can't remember how much detail he goes into there but you may find more detail in *_Spinors and Space-Time_* by Penrose & Rindler. IIRC one of the appendices discusses diagrammatic tensor notation. You can also go to a university library and hunt down Penrose's "Applications of Negative Dimensional Tensors", in *_Combinatorial Mathematics and Its Applications_*, ed. D. Welsh, Academic Press, New York, 1971, pp. 221-244.

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