

Capítulo 1

Álgebra tensorial

1.1. Tensores en \mathbb{R}^n

No es difícil tener prejuicios contra los tensores: al abrir cualquier libro con esa palabra en su título nos saltan a la vista un montón de subíndices y superíndices adornados con comas, puntos y comas y otros símbolos cuando se pasa al cálculo tensorial. Todo ello da una sensación misteriosa de taquigrafía impenetrable. Para los matemáticos, que muchas veces tienen otros prejuicios contra la Física, los temores se agravan por la conocida aplicación de los tensores en la teoría de la relatividad o en una parte de la mecánica.

El propósito de esta primera sección constituida por definiciones y ejemplos es perder ese miedo. El álgebra tensorial no es más que una extensión natural del álgebra lineal. El cálculo tensorial, que se verá más adelante, sigue las mismas directrices que el cálculo en subvariedades del segundo curso: todo es lineal en entornos pequeños. Como no hay sistemas naturales de coordenadas las cosas se complican pero conceptualmente ni el álgebra ni el cálculo tensorial son especialmente difíciles¹.

En el curso de primero se estudió álgebra lineal de una variable vectorial, pero nada impide considerar dos, tres o más variables; lo cual lleva directamente a la noción de tensor sobre un espacio vectorial.

Antes de dar la definición precisa de tensor, veamos algunos ejemplos sencillos que la motivan.

Sea V un espacio vectorial de dimensión finita sobre \mathbb{R} . Los libros dicen que cualquiera de estos espacios es isomorfo a algún \mathbb{R}^m , así que para fijar ideas podemos suponer que de hecho $V = \mathbb{R}^m$. Con una tipografía difícil de mantener, todas las aplicaciones lineales

¹ Si se permite una comparación extravagante, es como si alguien dijera que es muy complicado jugar al mus. Evidentemente es muy difícil aprender a jugar sólo oyendo "sí, no, pase, órdago" pero las reglas las podría aprender cualquier tonfo (y ακόμα ganarnos). Tampoco en Matemáticas puede uno limitarse a mirar u oír.

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