Tetrahedron (2-Compound) for Negating Mutual Inductance among Three Coils

Applicable for William Jay Fogal's Charged Barrier Transistor, aka: shorted transistor.

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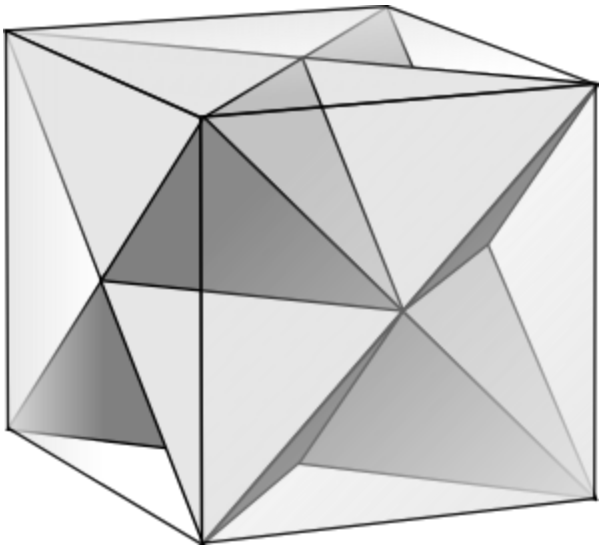
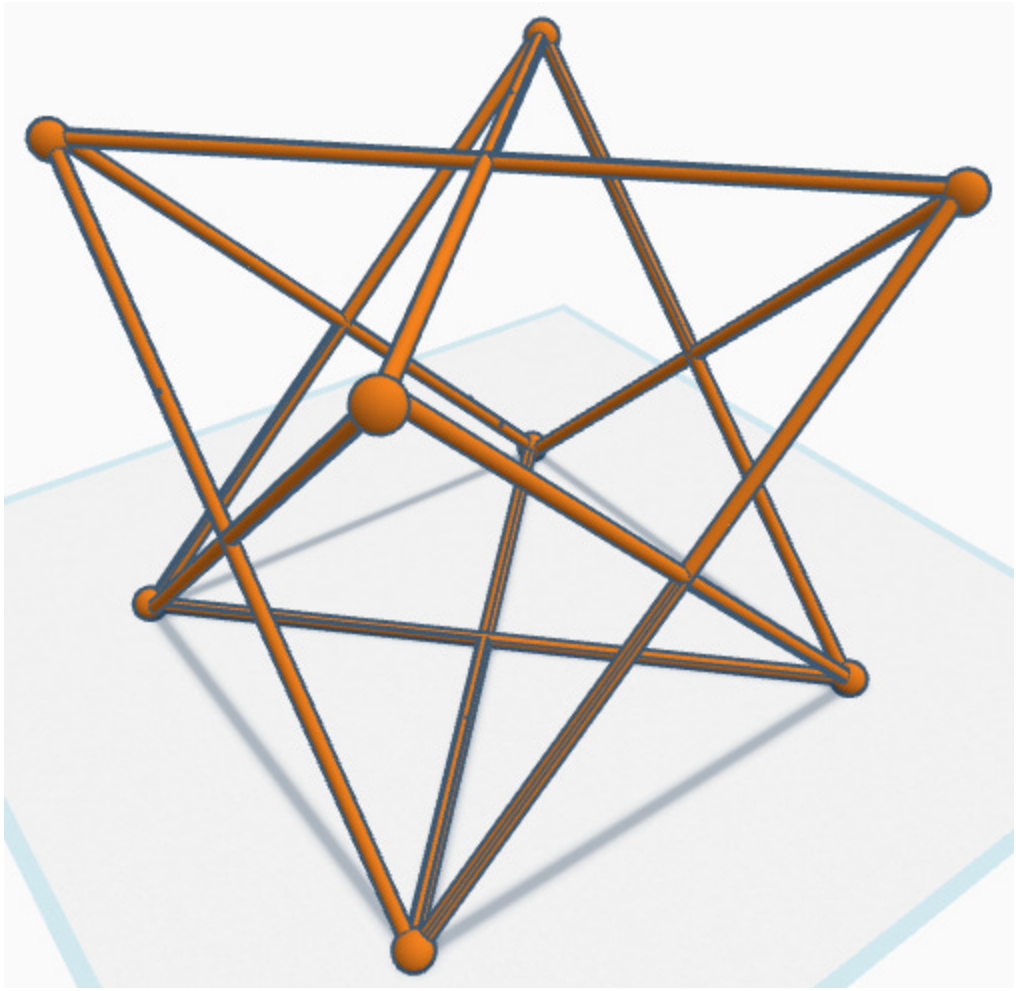
As I stated in my latest podcast, I made a mistake in assuming that a triple figure-eight could induce a negation of mutual inductance. I was wrong.

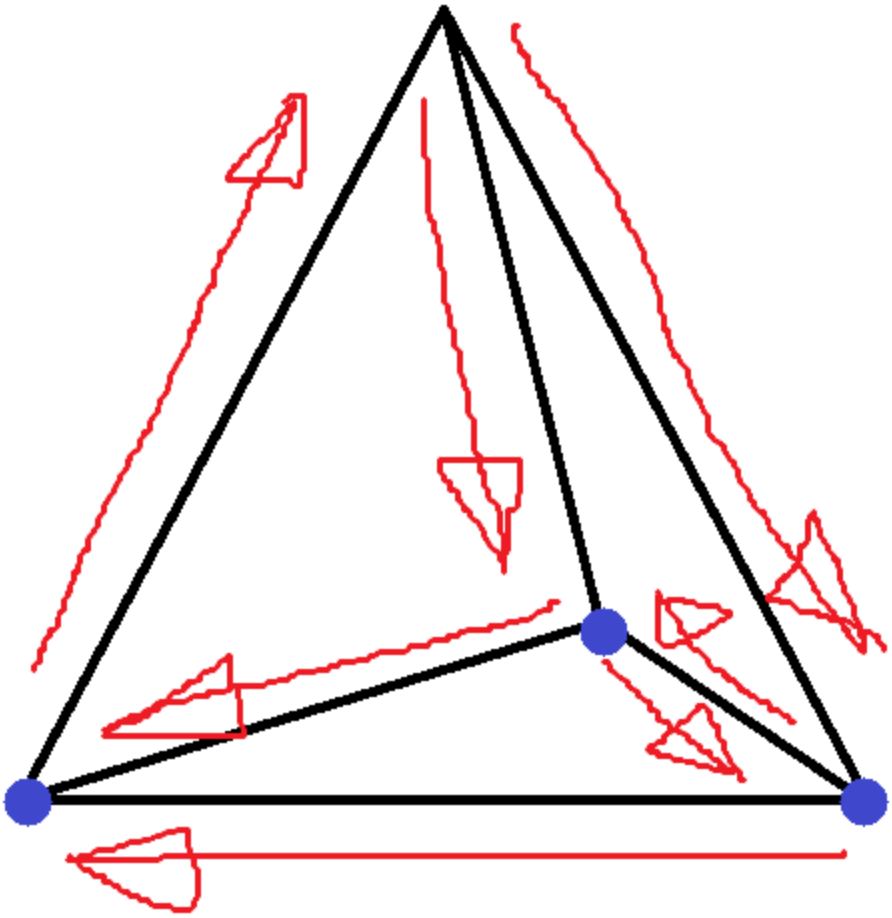
But I wasn't far off since both my error, and its resolution, are related to the cube.

The tetrahedron 2-compound, also known variously as a: stellated octahedron or a Merkabah, is the resolution. It sits inside of a cube just like my mistaken triple figure-eight does (in its own unique manner).

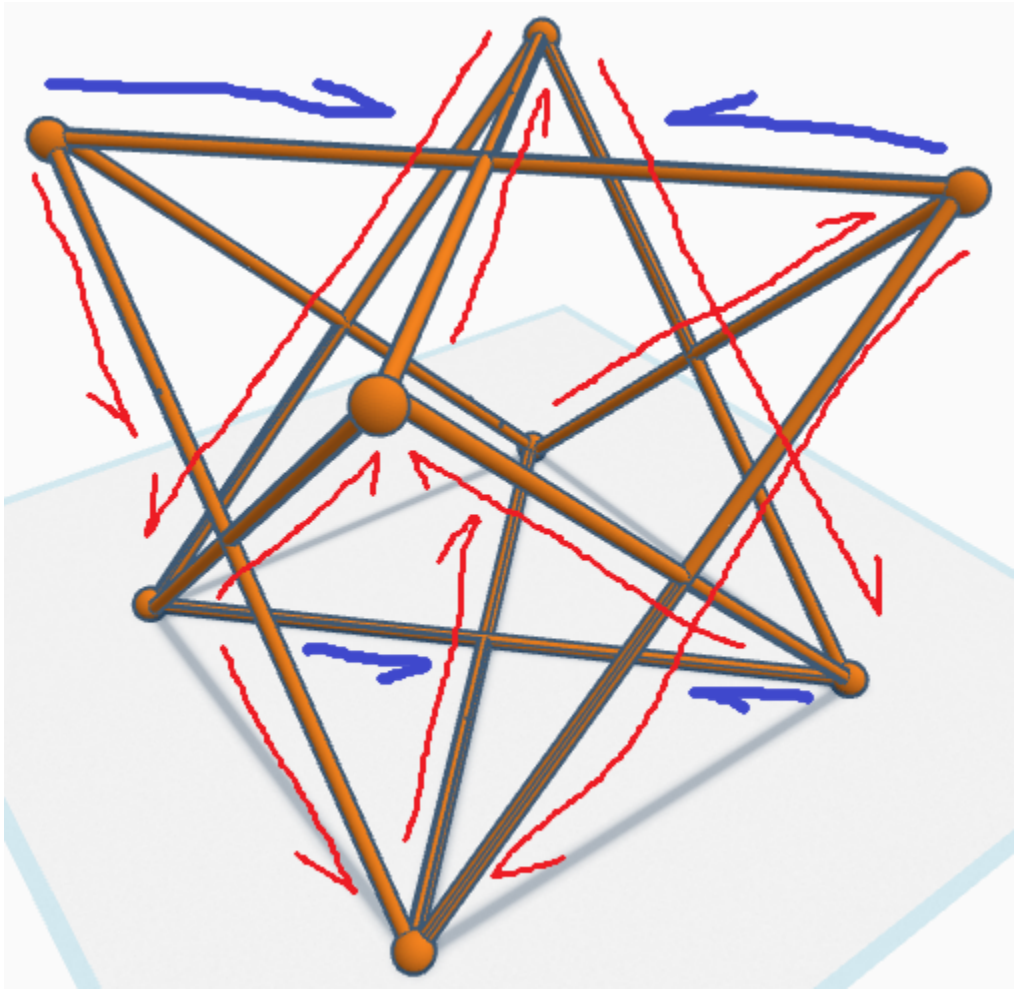




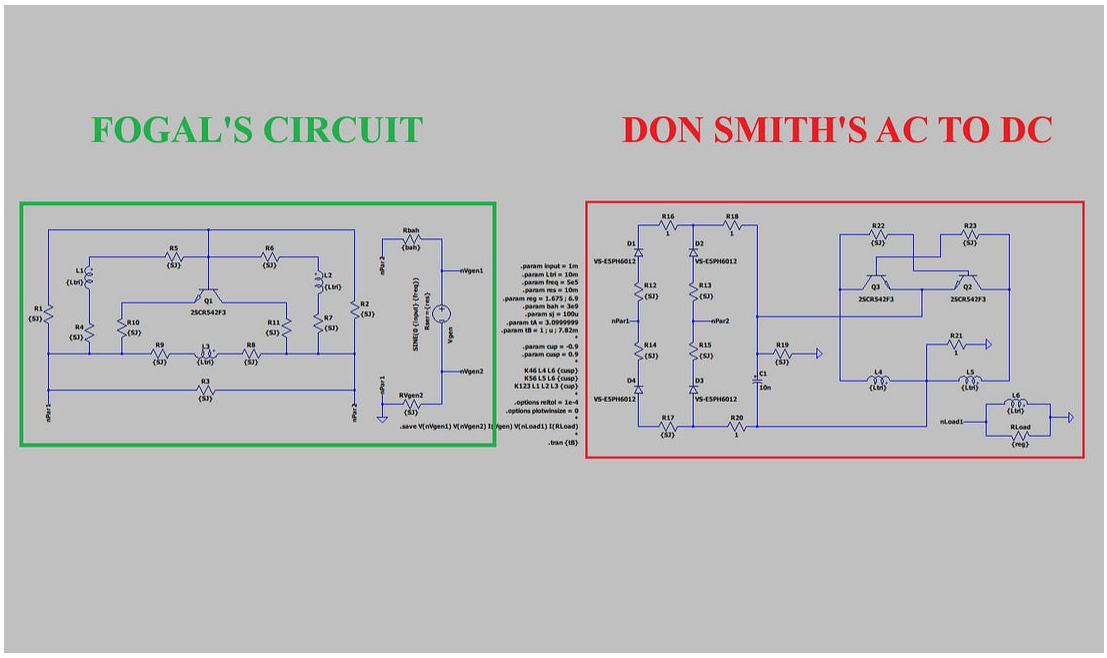
You'll notice that I put useless tiny spheres on each tip. I did this to hide the fact that my image is an imperfect rendition in which every edge does not meet up, precisely, at the corners. Oh, well. This is just to give you an idea of how the self-inductance of multiple coils could become commandeered into producing a negative magnetic coupling.



Tetrahedral transformer armature with initial points of impact marked with blue spheres, above, or blue lines, below.



Eventually, all six edges of both tetrahedrons will possess two counter-opposing directions of magnetic flux. But initially, it may be possible to presume that every edge is OK except for two. But that's assuming that the flux will be initiated at a single junction (vertice) of each tetrahedron. Yet, if there is a coil stretching along each cross-piece (diagonal) of what would have been the pair of diagonals across the face of a cube, then all edges (wound with coils) will experience a contradistinction of magnetic flux. This will satisfy a negative magnetic coupling for inductors: L1 and L2 and L3 within the left (green) blocked enclosure, below:



Here is the tetrahedron 2-compound as an STL file for 3D printing.