

Review of: "Circuits, Currents, Kirchhoff, and Maxwell"

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Potential competing interests: No potential competing interests to declare.

Hi

Interesting perspective on Kirchhoff's and Maxwell's sets of eqs.

I am still analyzing the paper, but I have some preliminary suggesitons:

- 1. The concept of "electricity flowing" somewhere may be deceiptive. Maybe it is better to use the concept of "electrical energy"
- 2. Actually, J is composed of two different terms, conduction current and convection current. Only the second one is assocaited to a flow of mass. In some points in the article, this concept is not so clear
- 3. Actually, in space *there are* a current associated to mass flow. An example is the solar wind. Please, take into account this!
- 4. The curl of B, used by the author, is not mathematically sound. B must be integrated on surfaces, while the correct quantity to apply curl on is the magnetic fied H. Please, reformulate equations in a more sound way!

I'll be back on this paper later on

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