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March 9th 1897

Dear Prof. Fitzgerald,

I enclose
an extract from the Electrical World
containing a paper on Other Theories
of Electricity, in which you may
be interested.

The author (Fessenden)

suggests $[k] = [\mu] = \frac{1}{v}$, as you
did in 1889, and states some
consequences of it. Would not
such an assumption make the
 k and μ of a substance proportional
to each other, so that if μ decreases

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as, for example, when iron becomes magnetically "saturated", K would decrease also, and μK would not be constant?

Or are the two quantities slownesses of different kinds of motion, not necessarily proportional?

I don't follow his argument that M ought to enter into the dimensions of μ and K , because free charges only occur at boundaries of matter.

The paper was sent to me to be abstracted for the Physical

Society's Journal, and I thought you would like to see it. I don't want it back, as I have finished the abstract.

Yours sincerely,
James L. Howard.

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