

Tesla-Marconi Wireless System

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VINYASI

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[Theory of Wireless Power](#) by Eric Dollard



Theory Of Wireless Power By Eric Dollard...

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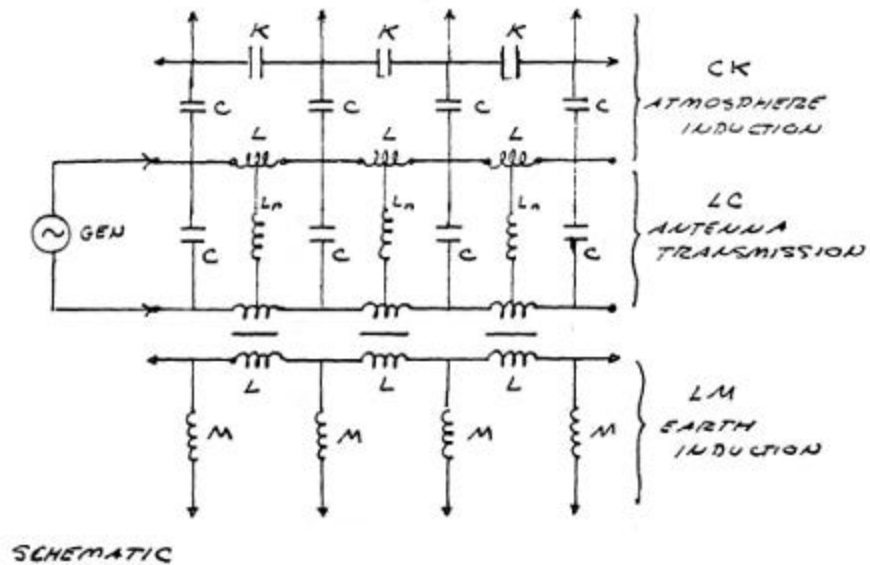
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An excerpt from the PDF, above, page 31:

By examination of the attached tables, (1), (2) & (3), it is seen that the long coils of popular designs do not result in optimum performance. In general, coils should be short and wide, and not longer than $n=1$. The frequency is usually given as:

$$F_0 = \frac{V_C}{\lambda_0}$$

which by equation (7) is incorrect. Winding on solid or continuous formers rather than spaced slender rods, as shown in figure (1),



greatly retards wave propagation as indicated in equation (6), thereby seriously distorting the wave. The dielectric constant of the coil, ϵ , should be as close to unity as is physically possible to insure high efficiency of transformation.

What I gather from this quote is that “overunity” devices, whose coils are wound in the conventional manner (tightly wound upon narrow bobbins whose length is greater than their width), will probably fail to produce the desired result.

Images are given during this video, above, which highlight what a properly wound coil should look like:



Snapshot of a “properly” wound coil is from:



Alexanderson Draft

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