

Comments on the paper “A Power Wave Theory of Antennas.” By Everett G. Farr; Published in FERMAT (www.e-fermat.org) / Articles / 2015 Vol7.

Keywords: Antenna Characterization, Frequency Domain, Time Domain, Antenna Impulse Response, Scattering Impulse Response, Generalized Antenna Scattering Matrix (GASM), Antenna Equation.

Comment by the reader:

1) Equivalent area and effective height as a function of frequency are well established concepts in Antenna theory. Your definitions of these quantities in spectral domain, appear different from the established concepts with the same names. It confuses the readers and it might be prudent to change your terminology.

2) Your paper has no example calculations of antennas. This makes me question its utility. Can you apply your equations to at least 2 cases?

Dr. Baum's B-dot (receiving loop antenna) and D-dot (receiving dipole antenna) electrically small loop and dipole antennas respectively have inductive and capacitive impedances which seem to create problems in your equations.

