

9-4. The term antenna factor refers to

- a) A factor that is used to relate the antenna radiation pattern to the current distribution on the antenna structure.
- b) A factor that when properly applied to a meter reading of the measuring instrument yields the electric field intensity in volts/meters or the magnetic field intensity in amperes/meter.
- c) A factor that when properly applied to an antenna source impedance corrects for the mismatch between the antenna source and the antenna.
- d) A factor that when properly applied to antenna gain in dB yields the electric field intensity in volts/meter.
- e) An antenna performance parameter equalling the antenna gain divided by the antenna noise temperature measured at the antenna terminals.

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Answer: b)

E&T Time: 5 Minutes

Antenna factor (field strength meter): That factor that when properly applied to the meter reading of the measuring instrument, yields the electric field intensity in volts/meter or the magnetic field intensity in amperes/meter. Source "IEEE Standard Dictionary of Electrical and Electronics Terms"