

# Heaviside Equation - Dollard

Here's [Eric Dollard](#)'s interpretation of [Scalar](#), that finally helped things click in my mind.

"[Scalar](#) explained.....for those who's minds have been polluted by the prevalent quantum goddess reality:

Let us turn to the Heaviside Equation which is the most fundamental equations in all of Electrical Engineering:

$(RG + XB) + j (XG - RB) = \text{propagation constant squared}$

where:

R resistance in Ohms

G conductance in Siemens

X reactance in Henrys per second

B susceptance in Farads per second

j rotation

Therefore:

RG is the [scalar](#) or DC component that is NOT A [WAVE](#), XB is the longitudinal or AC component and is an alternating electric wave.

XG is the [transverse](#) or OC component and is a forward moving oscillating electric wave.

RB is the [transverse](#) or OC component and is a reverse moving oscillating electric wave.

This equation allows for all electrical conditions in time and or space and combinations thereof. The example equation is the dimensions of time (see: Steinmetz Theory of Transient Electric Waves and Phenomenon and also my paper: Symbolic Representation of the Generalized Electric Wave.)

Example:

The air in the room; the room is filled with air and has atmospheric pressure of 2998 mB, your stereo is blasting away, the speakers are creating [longitudinal](#) waves having [length](#) and [frequency](#) and exert a oscillating force centered on 2998 mB (+ or - 10 mB).

RG is the air pressure, a [scalar](#) XB is the sound of the stereo, a [longitudinal](#) wave.

XG = RB, thus no [transverse](#) waves exist  $(XG - RB) = \text{ZERO}$ .

Hence  $(RG + XB)$  is what is going on in the room, the disinformers have convinced you that this whole quantity  $(RB + XB)$  is [scalar](#), RG is the only [scalar](#) component. It is DC and has NO [FREQUENCY](#), no [WAVELENGTH](#) and thus NO WAVE!

[SCALAR](#) = NO WAVE - GET IT???

If people don't get this fundamental concept - my time is better spent talking to my pet Coyote... I have nothing further to say..."

[Eric Dollard](#)

[https://en.wikipedia.org/wiki/Oliver\\_Heaviside](https://en.wikipedia.org/wiki/Oliver_Heaviside) [↗](#)

See Also

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[Heaviside](#)

[Heaviside Component](#)

[Heaviside energy flow component](#)