

A New Equation for Calculating the Energy of Electromagnetic Waves

Gh. Saleh

Saleh Research Centre, Netherlands

Kinetic energy is calculated by the following relation:

$$E = \frac{1}{2} mv^2$$

It states that the amount of mass (m) multiplied by the square of the velocity (v) of any object always gives us its kinetic energy (E). It can also be used in electromagnetic waves. So, the mass and velocity is the same as the mass and velocity of photon. Also, since the mass and velocity of photon are constant (based on Saleh Theory), therefore the one-half of the mass (m), multiplied by the square of the photon velocity (C), is always a constant value.

So, the basic energy of electromagnetic waves can be defined which give us the basic unit of energy of electromagnetic waves that we called "S". Considering that "S" is always a constant value, to calculate the energy of various electromagnetic waves, it is enough to multiply the coefficient of that specific wave.

