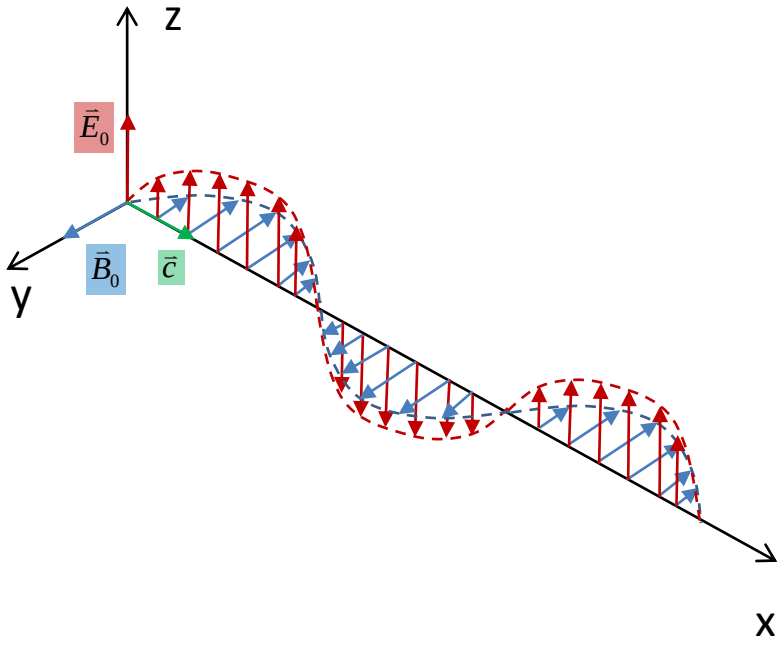
Valovna enačba

$$\frac{\partial^2 \vec{E}}{\partial t^2} - c^2 \frac{\partial^2 \vec{E}}{\partial x^2} = 0$$

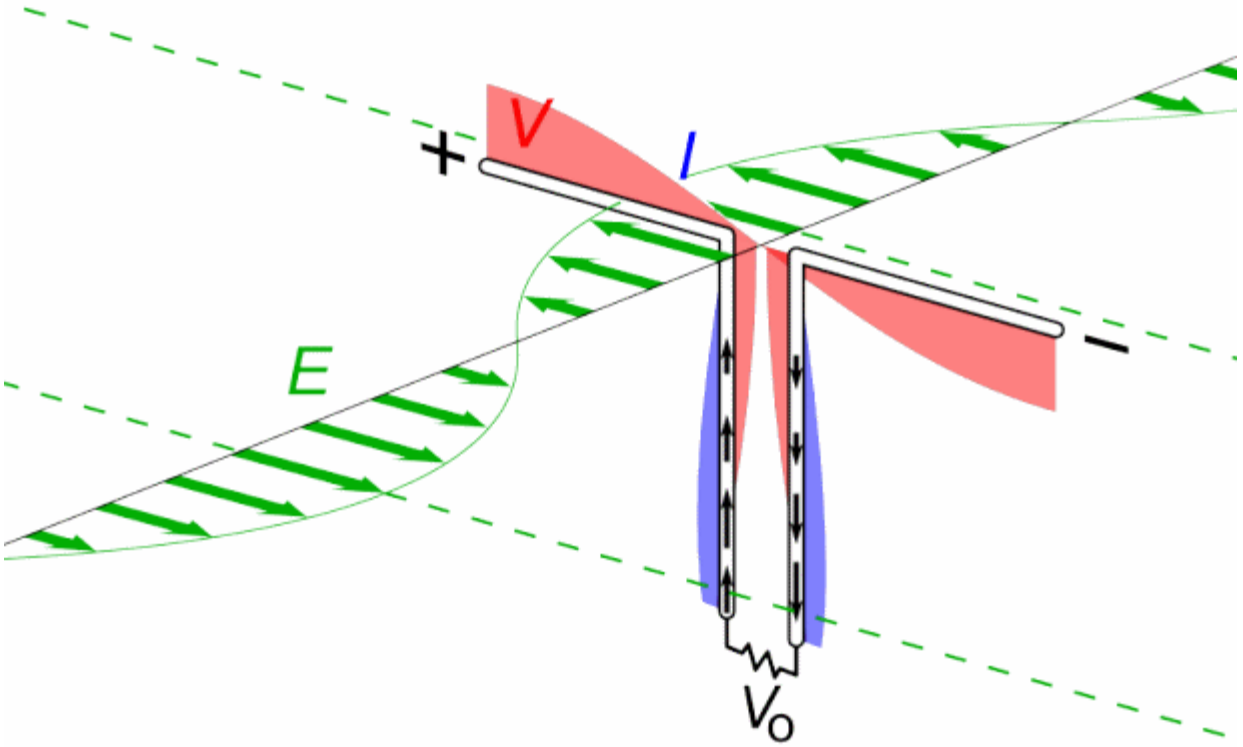
$$\vec{E} = \vec{E}_0 \sin(kx - \omega t)$$

$$\vec{B} = \vec{B}_0 \sin(kx - \omega t)$$

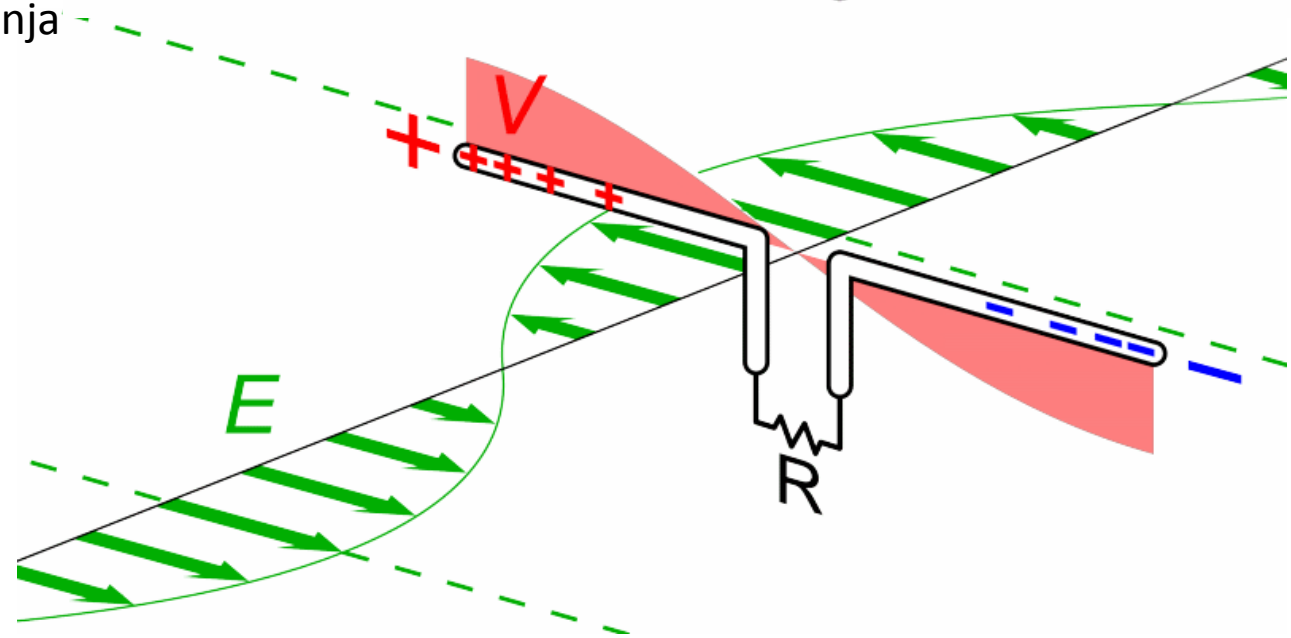
$$\vec{E} = \vec{B} \times \vec{c}$$



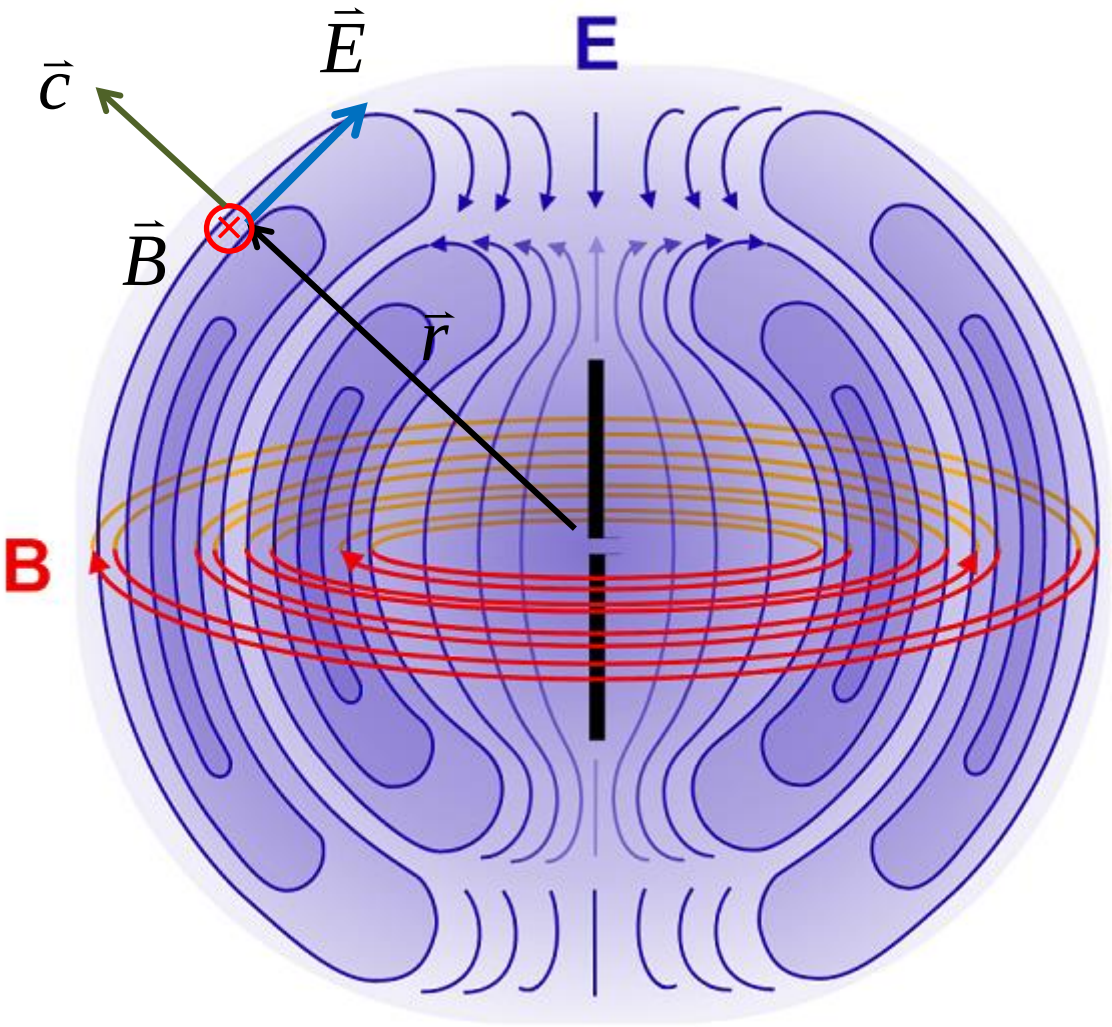
Izvor EM valovanja



Sprejemnik EM valovanja



Izvor EM valovanja

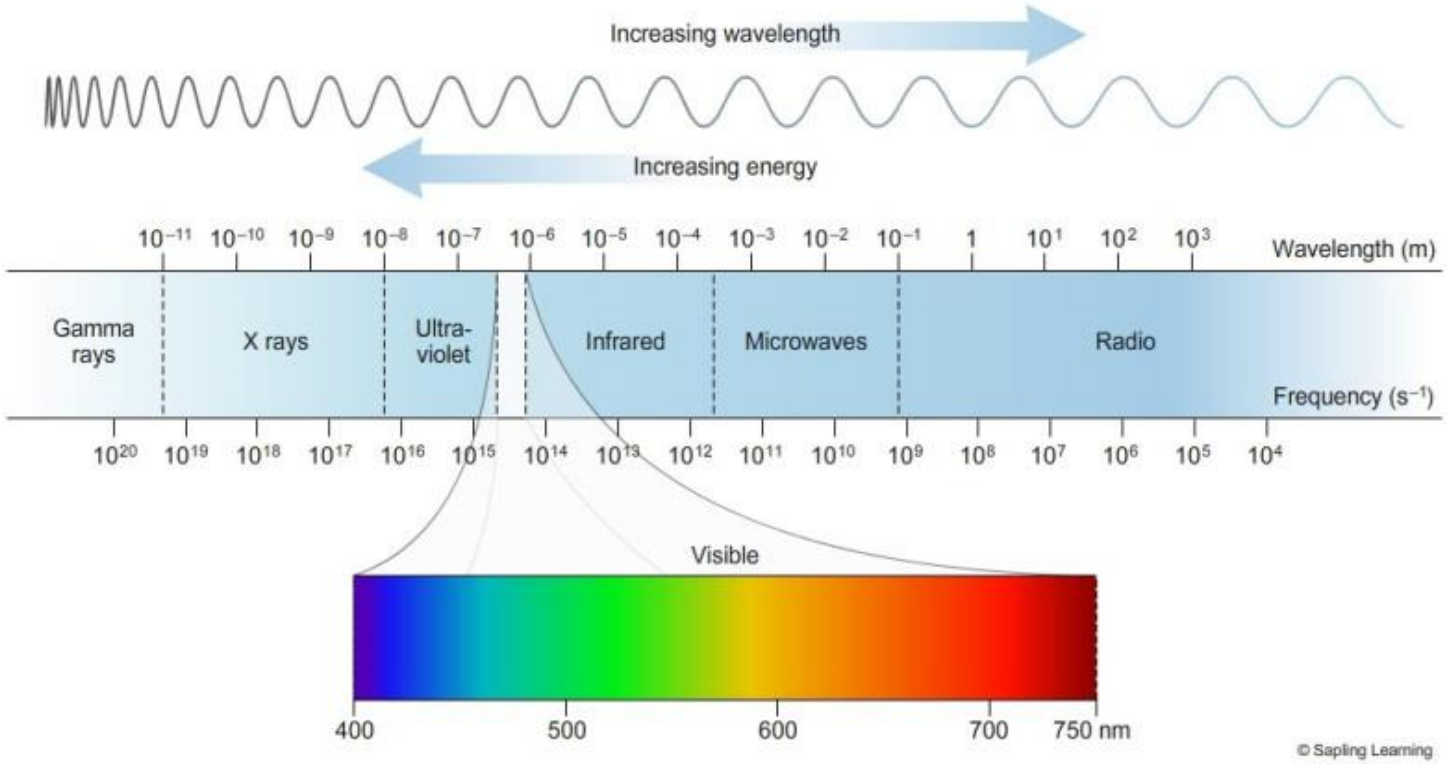


EM valovanje

$$k = \frac{2\pi}{\lambda}$$

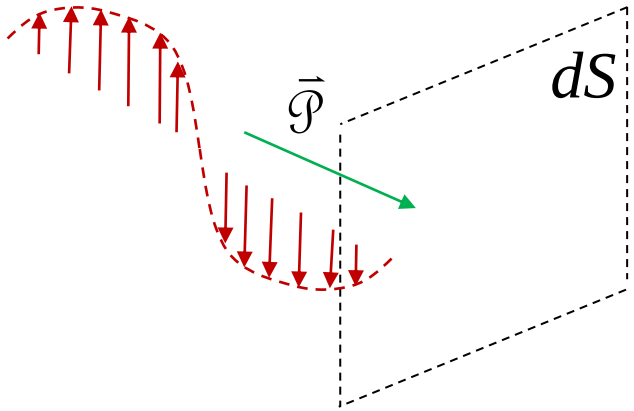
$$\omega = 2\pi\nu$$

$$\lambda\nu = c$$



Poynting-ov vektor

$$\vec{\mathcal{P}} = \frac{1}{\mu_0}\vec{E}\times\vec{B}$$



$$\mathcal{P} = \frac{dW}{dSdt}$$

EM valovanje

Figure S6. Modeled annually averaged downward direct plus diffuse solar irradiance at the ground (kWh/m^2/day) worldwide. The model used is GATOR-GCMOM (Jacobson et al., 2007; Jacobson, 2010a,b; Ten Hoeve et al., 2012), which simulates clouds, aerosols gases, weather, radiation fields, and variations in surface albedo over time. The model is run with horizontal resolution of 2.5° W-E x 2.0° S-N.