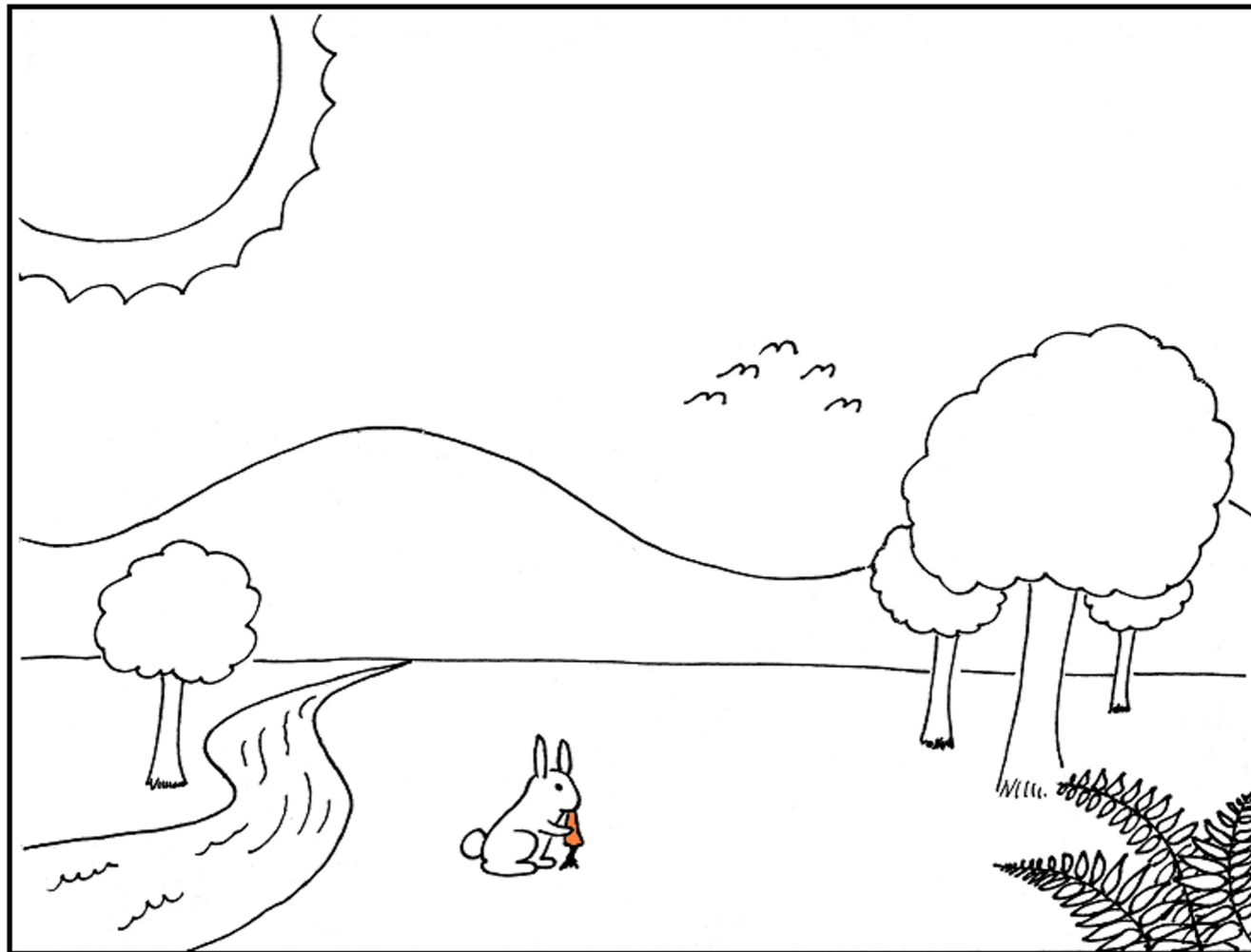
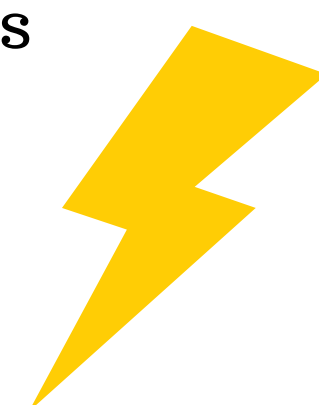


ELECTROMAGNETICS POSTER DAY 2019

Saturday 19 October
2-5pm ESB Foyer



- Wireless Power Transfer
- Remote Sensing
- Radio astronomy
- Lasers
- Metamaterial Superlenses
- Bio-Electromagnetism
- Photonics
- Millimetre Waves
- X-rays
- Smart Radios
- Magnetic Monopoles
- Chipless RFID
- Cavity Resonators
- THz Imaging
- Holograms
- Night vision
- RADAR
- Electromagnetic Universe



<https://abstrusegoose.com/275>

$\nabla \cdot \mathbf{E} = \frac{1}{\epsilon_0} \rho$
 $\nabla \cdot \mathbf{B} = 0$
 $\nabla \times \mathbf{E} + \frac{\partial \mathbf{B}}{\partial t} = 0$
 $\nabla \times \mathbf{B} - \mu_0 \epsilon_0 \frac{\partial \mathbf{E}}{\partial t} = \mu_0 \mathbf{J}$

$F = G \frac{m_1 m_2}{r^2}$
 $R_{\mu\nu} - \frac{1}{2} R g_{\mu\nu} = 8\pi G T_{\mu\nu}$

$f(x) = a_0 + \sum_{n=1}^{\infty} (a_n \cos nx + b_n \sin nx)$
 $[-\frac{\hbar^2}{2m} \nabla^2 + V] \psi = i\hbar \frac{\partial}{\partial t} \psi$

$C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$
 $nCO_2 + nH_2O \rightarrow (CH_2O)_n + nO_2$

$f_1(x,y) = \begin{bmatrix} 0.95 & 0.05 \\ -0.04 & 0.95 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} + \begin{bmatrix} 0.15 \\ 0.25 \end{bmatrix}$
 $f_2(x,y) = \begin{bmatrix} 0.15 & 0.25 \\ 0.25 & 0.15 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} + \begin{bmatrix} 0.95 \\ -0.04 \end{bmatrix}$

$\frac{\partial}{\partial t} \mu_i + \sum_{j=1}^N \frac{\partial \mu_j}{\partial x_j} = \frac{\partial \mu_i}{\partial t}$

$P + \frac{1}{2} \rho v^2 + \rho gh = C$

$\frac{\partial \mu_i}{\partial t} + \sum_{j=1}^N \frac{\partial \mu_j}{\partial x_j} = \frac{\partial \mu_i}{\partial t}$