

Physics Questions on Electricity and Voltage

- How is energy captured, held, stored, exist in the free space in a capacitor?
- Why do different materials have different di-electric constants?

Different molecules had different dipole moments; polar molecules align better

- Do electric fields interact? How?

Yes; complicated

- What's the relationship between an electromagnetic wave and an electro magnetic field?

Electric field- Will effect still charges, Magnetic field- Do not effect still charges; Created by charges and effect charges; EM waves: special case, can vary in a wave pattern

- Why is lightning/electricity blue? Plasma globes?
- How does electricity hurt humans and what levels are required and what do different amounts do?