Conductors and Capacitors

AP Physics C: Electricity and Magnetism · Vocabulary in context

Word	Example
conductor /kən'dʌktə/	Copper is a good **conductor** of electricity.
electrostatic equilibrium /ɪˌlektrəʊ'stætɪk ˌiːkwɪ'lɪbrɪəm/	In **electrostatic equilibrium**, the field inside a conductor is zero.
perpendicular /ˌpɜːpən'dɪkjʊlə/	The wall is **perpendicular** to the floor.
equipotential surface /ˌiːkwɪpə'tenʃl 'sɜːfɪs/	On an **equipotential surface**, the potential is the same everywhere.
electrostatic shielding /ɪˌlektrəʊ'stætɪk 'ʃiːldɪŋ/	A metal box gives **electrostatic shielding**: no field gets inside.
Faraday cage /'færədeɪ keɪdʒ/	A car acts as a **Faraday cage** when lightning strikes.
ground /graʊnd/	**Ground** the sphere by joining it to the Earth with a wire.
induced charge /ɪn'djuːst tʃɑːdʒ/	A charged rod brought near a metal can creates **induced charge** on it.
capacitor /kə'pæsɪtə/	A **capacitor** stores a small electric charge.
capacitance /kə'pæsɪtəns/	A large capacitor has a large **capacitance**.
parallel-plate capacitor /'pærəlel pleɪt kə'pæsɪtə/	A **parallel-plate capacitor** has two metal plates facing each other.
superposition /ˌsuːpəpə'zɪʃn/	When two waves meet, **superposition** adds them together.

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uniform /ˈjuːnɪfɔːm/	The weight of a **uniform** rod acts at its middle.
projectile motion /prəˈdʒektaɪl ˈməʊʃn/	One model of **projectile motion** ignores air resistance.
work /wɜːk/	You do **work** when you push a box across the floor.
parallel /ˈpærəlel/	Two springs side by side, in **parallel**, are stiffer.
series /ˈsɪəriːz/	Springs in **series** stretch more than one spring.
dielectric /ˌdaɪɪˈlektrɪk/	A **dielectric** is the insulator between the plates.
polarized /ˈpəʊləraɪzd/	A charged balloon makes the wall's molecules **polarized**.
dielectric constant /ˌdaɪɪˈlektrɪk ˈkɒnstənt/	A material's **dielectric constant** tells how much it raises capacitance.
permittivity of free space /ˌpɜːmɪˈtɪvəti ɒv friː speɪs/	The **permittivity of free space** ε_0 sets the value of k. ε_0 k

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