

How Much Should I Charge

Electric charge

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Electric charge (symbol q , sometimes Q) is a physical property of matter that causes it to experience a force when placed in an electromagnetic field. Electric charge can be positive or negative. Like charges repel each other and unlike charges attract each other. An object with no net charge is referred to as electrically neutral. Early knowledge of how charged substances interact is now called classical electrodynamics, and is still accurate for problems that do not require consideration of quantum effects.

In an isolated system, the total charge stays the same - the amount of positive charge minus the amount of negative charge does not change over time. Electric charge is carried by subatomic particles. In ordinary matter, negative charge is carried by electrons, and positive charge is carried...

Shaped charge

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A shaped charge, commonly also hollow charge if shaped with a cavity, is an explosive charge shaped to focus the effect of the explosive's energy. Different types of shaped charges are used for various purposes such as cutting and forming metal, initiating nuclear weapons, penetrating armor, or perforating wells in the oil and gas industry.

A typical modern shaped charge, with a metal liner on the charge cavity, can penetrate armor steel to a depth of seven or more times the diameter of the charge (charge diameters, CD), though depths of 10 CD and above have been achieved. Contrary to a misconception, possibly resulting from the acronym HEAT (high-explosive anti-tank), the shaped charge does not depend in any way on heating or melting for its effectiveness; that is, the jet from a shaped charge...

Charge of the Light Brigade

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The Charge of the Light Brigade was a military action undertaken by British light cavalry against Russian forces during the Battle of Balaclava in the Crimean War, resulting in many casualties to the cavalry. On 25 October 1854, the Light Brigade, led by Lord Cardigan, mounted a frontal assault against a Russian artillery battery which was well-prepared with excellent fields of defensive fire. The charge was the result of a misunderstood order from the commander-in-chief, Lord Raglan, who had intended the Light Brigade to attack a different objective for which light cavalry was better suited, to prevent the Russians from removing captured guns from overrun Turkish positions. The Light Brigade made its charge under withering direct fire and reached its target, scattering some of the gunners...

Space charge

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Space charge is an interpretation of a collection of electric charges in which excess electric charge is treated as a continuum of charge distributed over a region of space (either a volume or an area) rather than distinct point-like charges. This model typically applies when charge carriers have been emitted from some region of a solid—the cloud of emitted carriers can form a space charge region if they are sufficiently spread out, or the charged atoms or molecules left behind in the solid can form a space charge region.

Space charge effects are most pronounced in dielectric media (including vacuum); in highly conductive media, the charge tends to be rapidly neutralized or screened. The sign of the space charge can be either negative or positive. This situation is perhaps most familiar in...

Pickett's Charge

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Pickett's Charge was an infantry assault on July 3, 1863, during the Battle of Gettysburg. It was ordered by Confederate General Robert E. Lee as part of his plan to break through Union lines and achieve a decisive victory in the North. The charge was named after Major General George Pickett, one of the Confederate Army's division commanders. The assault was aimed at the center of the Union Army's position on Cemetery Ridge, which was believed to be a vulnerable point in the Union defenses. As the Confederate troops marched across nearly a mile of open ground, they came under heavy artillery and rifle fire from entrenched Union forces. The open terrain offered little cover, making the Confederate soldiers easy targets, and their ranks were quickly decimated. Although a small number of the...

Charge (heraldry)

one-third of the field. As discussed above, much disagreement exists among authors regarding which ordinary charges are "honourable", so only those generally

In heraldry, a charge is any emblem or device occupying the field of an escutcheon (shield). That may be a geometric design (sometimes called an ordinary) or a symbolic representation of a person, animal, plant, object, building, or other device. In French blazon, the ordinaries are called pièces, and other charges are called meubles ("[the] mobile [ones]").

The term charge can also be used as a verb; for example, if an escutcheon depicts three lions, it is said to be charged with three lions; similarly, a crest or even a charge itself may be "charged", such as a pair of eagle wings charged with trefoils (as on the coat of arms of Brandenburg). It is important to distinguish between the ordinaries and divisions of the field, as they typically follow similar patterns, such as a shield divided...

Tiny Toon Adventures: How I Spent My Vacation

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Tiny Toon Adventures: How I Spent My Vacation is a 1992 American animated comedy film from Warner Bros. Animation and Amblin Entertainment, originally intended for theatrical exhibition. Featuring the regular characters from the Fox Kids animated television program Tiny Toon Adventures, the plot follows their summer vacation from school, mainly focused on Babs and Buster going downriver, Plucky and Hamton going to a world-famous amusement park, and Fifi in search of her favorite movie star.

Steven Spielberg served as executive producer, with writing by Paul Dini, Nicholas Hollander, Tom Ruegger and Sherri Stoner. Japanese animation studio Tokyo Movie Shinsha (now known as TMS Entertainment) produced the animation. How I Spent My Vacation was released on both VHS and LaserDisc formats on Wednesday...

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Charging station

chargers provide higher power charging (which requires much larger AC-to-DC converters) by building the converter into the charging station instead of the vehicle

A charging station, also known as a charge point, chargepoint, or electric vehicle supply equipment (EVSE), is a power supply device that supplies electrical power for recharging plug-in electric vehicles (including battery electric vehicles, electric trucks, electric buses, neighborhood electric vehicles, and plug-in hybrid vehicles).

There are two main types of EV chargers: alternating current (AC) charging stations and direct current (DC) charging stations. Electric vehicle batteries can only be charged by direct current electricity, while most mains electricity is delivered from the power grid as alternating current. For this reason, most electric vehicles have a built-in AC-to-DC converter commonly known as the "on-board charger" (OBC). At an AC charging station, AC power from the grid...

Much Ado About Nothing

Much Ado About Nothing is a comedy by William Shakespeare thought to have been written in 1598 and 1599. The play was included in the First Folio, published

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The play is set in Messina and revolves around two romantic pairings that emerge when a group of soldiers arrive in the town. The first, between Claudio and Hero, is nearly scuppered by the accusations of the villain, Don John. The second, between Claudio's friend Benedick and Hero's cousin Beatrice, takes centre stage as the play continues, with both characters' wit and banter providing much of the humour.

Through "noting" (sounding like "nothing" and meaning gossip, rumour, overhearing), Benedick and Beatrice are tricked into confessing their love for each other, and Claudio is tricked into believing that Hero is not a maiden...

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