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## magnetism wikipedia

magnetism is the class of physical attributes that are mediated by a magnetic field which refers to the capacity to induce attractive and repulsive phenomena in other entities electric currents and the magnetic moments of elementary particles give rise to a magnetic field which acts on other currents and magnetic moments magnetism is one aspect of the combined phenomena

## rené descartes wikipedia

rené descartes d ei ' k ɑ:r t or uk ' d ei k ɑ:r t french vœne dekaʁt latinized renatus cartesius 31 march 1596 11 february 1650 58 was a french philosopher scientist and mathematician widely considered a seminal figure in the emergence of modern philosophy and science mathematics was central to his method of inquiry and he connected the

## angular momentum wikipedia

in physics angular momentum rarely moment of momentum or rotational momentum is the rotational analog of linear momentum it is an important physical quantity because it is a conserved quantity the total angular momentum of a closed system remains constant angular momentum has both a direction and a magnitude and both are conserved bicycles and

## speed of light wikipedia

the speed of light in vacuum commonly denoted  $c$  is a universal physical constant that is important in many areas of physics the speed of light  $c$  is exactly equal to 299 792 458 metres per second approximately 300 000 kilometres per second 186 000 miles per second 671 million miles per hour according to the special theory of relativity  $c$  is the upper limit for the speed at

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## spacetime wikipedia

in physics spacetime is a mathematical model that combines the three dimensions of space and one dimension of time into a single four dimensional manifold spacetime diagrams can be used to visualize relativistic effects such as why different observers perceive differently where and when events occur until the 20th century it was assumed that the three dimensional

## electromagnetism wikipedia

electromagnetism is a branch of physics involving the study of the electromagnetic force a type of physical interaction that occurs between electrically charged particles the electromagnetic force is carried by

electromagnetic fields composed of electric fields and magnetic fields and it is responsible for electromagnetic radiation such as light it is one of the four fundamental

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## electromagnetic wave equation wikipedia

is the speed of light  $i$  e phase velocity in a medium with permeability  $\mu$  and permittivity  $\epsilon$  and  $\nabla^2$  is the laplace operator in a vacuum  $v_{ph} = c \sqrt{\epsilon_0 \mu_0}$  299 792 458 m/s a fundamental physical constant the electromagnetic wave equation derives from maxwell s equations in most older literature  $\mathbf{b}$  is called the magnetic flux density or magnetic induction

## optics wikipedia

optics is the branch of physics that studies the behaviour and properties of light including its interactions with matter and the construction of instruments that use or detect it optics usually describes the behaviour of visible ultraviolet and infrared light because light is an electromagnetic wave other forms of electromagnetic radiation such as x rays microwaves

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## coulomb s law wikipedia

coulomb s inverse square law or simply coulomb s law is an experimental law of physics that quantifies the amount of force between two stationary electrically charged particles the electric force between charged bodies at rest is conventionally called electrostatic force or coulomb force although the law was known earlier it was first published in 1785 by french physicist charles

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### **black body radiation wikipedia**

black body radiation is the thermal electromagnetic radiation within or surrounding a body in thermodynamic equilibrium with its environment emitted by a black body an idealized opaque non reflective body it has a specific continuous spectrum of wavelengths inversely related to intensity that depend only on the body s temperature which is assumed for the sake of

### mass energy equivalence wikipedia

in physics mass energy equivalence is the relationship between mass and energy in a system s rest frame where the two values differ only by a constant and the units of measurement the principle is described by the physicist albert einstein s famous formula the formula defines the energy  $e$  of a particle in its rest frame as the product of mass  $m$  with the speed of light

### momentum wikipedia

in newtonian mechanics momentum more specifically linear momentum or translational momentum is the product of the mass and velocity of an object it is a vector quantity possessing a magnitude and a direction if  $m$  is an object s mass and  $v$  is its velocity also a vector quantity then the object s momentum  $p$  is in the international system of units si the

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