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**resonance wikipedia** Apr 19 2022 the waves reflect off the ends of the string and eventually a steady state is reached with waves traveling in both directions like mechanical resonance acoustic resonance can result in catastrophic failure of the object at resonance the classic example of this is breaking a wine glass with sound at the precise resonant frequency of the

how electric motors work howstuffworks Sep 12 2021 apr 01 2000 the spin of the rotor is creating the torque needed to create mechanical power to turn the wheels of a car or the whirr of a fan some ac motors use a wound rotor which is wrapped with wire instead of being a squirrel cage the squirrel cage kind is more common though in either case there s only one moving part in an ac motor which means

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anatomy of an electromagnetic wave science mission directorate nasa Mar 18 2022 mechanical waves and electromagnetic waves are two important ways that energy is transported in the world around us waves in water and sound waves in air are two examples of mechanical waves

mechanical waves are caused by a disturbance or vibration in matter whether solid gas liquid or plasma matter that waves are traveling through is

**schrodinger equation wikipedia** Mar 06 2021 the schrödinger equation is a linear partial differential equation that governs the wave function of a quantum mechanical system 1 2 it is a key result in quantum mechanics and its discovery was a significant landmark in the development of the subject the equation is named after erwin schrödinger who postulated the equation in 1925 and published it in 1926 forming the basis

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**wave particle duality wikipedia** Jul 22 2022 wave particle duality is the concept in quantum mechanics that every particle or quantum entity may be described as either a particle or a wave it expresses the inability of the classical concepts particle or wave to fully describe the behaviour of quantum scale objects as albert einstein wrote it seems as though we must use sometimes the one theory and sometimes the other

*acoustic impedance wikipedia* Apr 14 2019 acoustic impedance and specific acoustic impedance are measures of the opposition that a system presents to the acoustic flow resulting from an acoustic pressure applied to the system the si unit of acoustic impedance is the pascal second per cubic metre pa s m<sup>3</sup> or in the mks system the rayl per square metre rayl m<sup>2</sup> while that of specific acoustic impedance is

**electromagnetic radiation wikipedia** Feb 05 2021 in physics electromagnetic radiation emr consists of waves of the electromagnetic em field which propagate through space and carry electromagnetic radiant energy it includes radio waves microwaves infrared visible light ultraviolet x rays and gamma rays all of these waves form part of the electromagnetic spectrum classically electromagnetic radiation

**mechanical wave wikipedia** Oct 25 2022 in physics a mechanical wave is a wave that is an oscillation of matter and therefore transfers energy through a medium while waves can move over long distances the movement of the medium of transmission the material is limited therefore the oscillating material does not move far from its initial equilibrium position

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wave wikipedia May 20 2022 mechanical waves waves on strings the speed of a transverse wave traveling along a vibrating string v is directly proportional to the square root of the tension of the string t over the linear mass density  $\mu$  where the linear density  $\mu$  is the mass per unit length of

*mechanical explanations of gravitation wikipedia* Aug 23 2022 this theory is probably the best known mechanical explanation and was developed for the first time by nicolas fatio de duillier in 1690 and re invented among others by georges louis le sage 1748 lord kelvin 1872 and hendrik lorentz 1900 and criticized by james clerk maxwell 1875 and henri poincaré 1908 the theory posits that the force of gravity is the

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**wave equation wikipedia** Feb 17 2022 the two way wave equation is a second order linear partial differential equation for the description of waves or standing wave fields as they occur in classical physics such as mechanical waves e g water waves sound waves and seismic waves or electromagnetic waves including light waves it arises in fields like acoustics electromagnetism and fluid

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