

I'm not a robot





Physics is the study of matter and energy and how they interact in our universe. Physics uses experiments to create laws that help us understand and predict natural phenomena. Studying physics is important because it helps answer fundamental questions about our physical universe. Physics is the scientific study of matter and energy and how they interact with each other. This energy can take the form of motion, light, electricity, radiation, gravity just about anything, honestly. Physics deals with matter on scales ranging from sub-atomic particles (i.e. the particles that make up the atom and the particles that make up those particles) to stars and even entire galaxies. As an experimental science, physics utilizes the scientific method to formulate and test hypotheses that are based on observation of the natural world. The goal of physics is to use the results of these experiments to formulate scientific laws, usually expressed in the language of mathematics, which can then be used to predict other phenomena. When you talk about theoretical physics, you are speaking of the area of physics that is focused on developing these laws and using them to extrapolate into new predictions. These predictions from theoretical physicists then create new questions that experimental physicists then develop experiments to test. In this way, the theoretical and experimental components of physics (and science in general) interact with each other and push each other forward to develop new areas of knowledge. In a broader sense, physics can be seen as the most fundamental of the natural sciences. Chemistry, for example, can be viewed as a complex application of physics, as it focuses on the interaction of energy and matter in chemical systems. We also know that biology is, at its heart, an application of chemical properties in living things, which means that it is also, ultimately, ruled by the physical laws. Of course, we don't think of these other fields as part of physics. When we investigate something scientifically, we look for patterns at the scale that is most appropriate. Though every living thing is acting in a way that is fundamentally driven by the particles of which it is composed, trying to explain an entire ecosystem in terms of the behavior of fundamental particles would be diving into an unhelpful level of detail. Even when looking at the behavior of a liquid, we look in general at the properties of the fluid as a whole through fluid dynamics, rather than paying particular attention to the behavior of the individual particles. Because physics covers so much area, it is divided into several specific fields of study, such as electronics, quantum physics, astronomy, and biophysics. Physics is the study of astronomy, and in many ways, astronomy was humanity's first organized field of science. Ancient people looked to the stars and recognized patterns there, then began using mathematical precision to make predictions about what would happen in the heavens based on those patterns. Whatever flaws there were in these specific predictions, the method of trying to understand the unknown was a worthy one. Trying to understand the unknown is still a central problem in human life. Despite all of our advancements in science and technology, being a human being means that you are able to understand some things and also that there are things you do not understand. Science teaches you a methodology for approaching the unknown and asking questions that get to the heart of what is unknown and how to make it known. Physics, in particular, focuses on some of the most fundamental of questions about our physical universe. Pretty much the only more fundamental questions that could be asked fall in the philosophical realm of "metaphysics" (named for being literally "beyond physics"), but the problem is that these questions are so fundamental that many of the questions in the metaphysical realm remain unresolved even after centuries or millennia of inquiry by most of history's greatest minds. Physics, on the other hand, has resolved many fundamental issues, even though those resolutions tend to open up whole new types of questions. For more on this subject, check out "Why Study Physics?" (adapted, with permission, from the book *Why Science?* by James Trellif), mineral processing Mineral processing, art of treating crude ores and mineral products in order to separate the valuable minerals from the waste rock, or gangue. It is the first process that most ores undergo after mining... relativity Relativity, wide-ranging physical theories formed by the German-born physicist Albert Einstein. With his theories of special relativity (1905) and general relativity (1915), Einstein overthrew many assumptions... mechanics of solids Mechanics of solids, science concerned with the stressing, deformation, and failure of solid materials and structures. What, then, is a solid? Any material, fluid or solid, can support normal forces. These... ultrasonics Ultrasonics, vibrations of frequencies greater than the upper limit of the audible range for humans that is, greater than about 20 kilohertz. The term, sonic, is applied to ultrasound waves of very high... light Light, electromagnetic radiation that can be detected by the human eye. Electromagnetic radiation occurs over an extremely wide range of wavelengths, from gamma rays with wavelengths less than about 1... sound reception Sound reception, response of an organisms aural mechanism, the ear, to a specific form of energy change, or sound waves. Sound waves can be transmitted through gases, liquids, or solids, but the hearing... principles of physical science Principles of physical science, the procedures and concepts employed by those who study the inorganic world. Physical science, like all the natural sciences, is concerned with describing and relating to... fluid mechanics Fluid mechanics, science concerned with the response of fluids to forces exerted upon them. It is a branch of classical physics with applications of great importance in hydraulic and aeronautical engineering... gravity Gravity, in mechanics, the universal force of attraction acting between all bodies of matter. It is far by the weakest known force in nature and thus plays no role in determining the internal properties... mirror Mirror, any polished surface that diverts a ray of light according to the law of reflection. The typical mirror is a sheet of glass that is coated on its back with aluminum or silver that produces images... cosmology Cosmology, field of study that brings together the natural sciences, particularly astronomy and physics, in a joint effort to understand the physical universe as a unified whole. The observable universe... liquid Liquid, in physics, one of the three principal states of matter, intermediate between gas and crystalline solid. The most obvious physical properties of a liquid are its retention of volume and its conformation... heat Heat, energy that is transferred from one body to another as the result of a difference in temperature. If two bodies at different temperatures are brought together, energy is transferred...e. heat flowsfrom... physics Physics, science that deals with the structure of matter and the interactions between the fundamental constituents of the observable universe. In the broadest sense, physics (from the Greek physikos) is... seismograph Seismograph, instrument that makes a record of seismic waves caused by an earthquake, explosion, or other Earth-shaking phenomenon... Seismograph is a device equipped with electromagnetic sensors that translate... geomagnetic field Geomagnetic field, magnetic field associated with Earth. It is primarily dipolar (i.e., it has two poles, the geomagnetic North and South poles) on Earth's surface. Away from the surface the dipole becomes... mechanics Mechanics, science concerned with the motion of bodies under the action of forces, including the special case in which a body remains at rest. Of first concern in the problem of motion are the forces that... acoustics Acoustics, the science concerned with the production, control, transmission, reception, and effects of sound. The term is derived from the Greek akoustos, meaning hearing. Beginning with its origins in... relativistic mechanics Relativistic mechanics, science concerned with the motion of bodies whose relative velocities approach the speed of light c, or whose kinetic energies are comparable with the product of their masses m... holography Holography, means of creating a unique photographic image without the use of a lens. The photographic recording of the image is called a hologram, which appears to be an unrecognizable pattern of stripes... metallurgy Metallurgy, art and science of extracting metals from their ores and modifying the metals for use. Metallurgy customarily refers to commercial as opposed to laboratory methods. It also concerns the chemical... lubrication Lubrication, introduction of any of various substances between sliding surfaces to reduce wear and friction. Nature has been applying lubrication since the evolution of synovial fluid, which lubricates... quantum mechanics Quantum mechanics, science dealing with the behaviour of matter and light on the atomic and subatomic scale. It attempts to describe and account for the properties of molecules and atoms and their constituentselectrons,... scanning tunneling microscope Scanning tunneling microscope (STM), type of microscope whose principle of operation is based on the quantum mechanical phenomenon known as tunneling, in which the wavelike properties of electrons permit... biophysics Biophysics, discipline concerned with the application of the principles and methods of physics and the other physical sciences to the solution of biological problems. Lenses, we will understand by simple optical rays. (1) Physical optics. (2) Optics. (3) Optics. (4) Optics. (5) Optics. (6) Optics. (7) Optics. (8) Optics. (9) Optics. (10) Optics. (11) Optics. (12) Optics. (13) Optics. (14) Optics. (15) Optics. 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