

Different types of physics

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Physics is sometimes broken into two broad categories, based on the history of the science: Classical Physics, which includes studies that arose from the Renaissance to the beginning of the 20th century; and Modern...

The following are common types of physics. The physics of moving physical elements and objects. The study of the motion of air. The study of the motion of fluids. The branch of physics that deals with heat and work....

23 Types of Physics Classical Physics Atomic Physics Mechanical Physics Relativistic mechanics Modern physics Acoustics Plasma physics Thermodynamics Engineering physics Astrophysics 7 more rows...

Physics is one of the most important physical sciences out there. The concepts of Physics are applied in our lives in a number of different avenues starting from the most simple to complex practices like the launching of rockets. These vast avenues of Physics cater to a number of different concepts, which can be categorized into their own niche. Such individual niches of Physics can be known as branches of Physics. There are 15 branches of Physics in total. Some main branches include classical physics, modern physics, optics, electromagnetism, mechanics, relativity and thermodynamics.

This can be explained with an example of a branch which is mechanics. The branch of physics deals with the topic of motion. But it deals not only with motion but also different types of motion, different types of forces associated with the motion, different particles behaving differently under motion.

Classical Physics is the branch of Physics that deals with concepts like mechanics, thermodynamics, and electromagnetism. It is generally not applicable to very small objects like neutrons, atoms, etc. It is the Physics of the time before the 1900s.

An example of Classical Physics is Newtonian Mechanics. The concepts of Newtonian Mechanics include motion which follows Newton's laws of motion. These concepts do not cater to small objects correctly.

Modern physics is defined as the Physics of the 20th century. Most of modern physics is the theory of relativity and quantum physics. The majority of these theories were put forth by Sir Albert Einstein.

Mechanics is defined as the branch of Physics that deals with the motion of any object. It includes all the aspects of motion such as the frame of reference and the forces associated with it. This branch can be divided into Classical mechanics and Quantum mechanics. These subparts of this branch deal with the different sizes of the particle involved, with quantum mechanics dealing with subatomic particles and classical dealing with macroscopic particles.

It is the study of astronomical bodies, namely the planets, solar systems, galaxies, etc. It deals with the Physics

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involved in motion, formation and other phenomena related to astronomical bodies.

An example of the concept of Astrophysics is the concept of Black holes which explains their immensely strong gravitational attraction which prevents even electromagnetic radiation from escaping.

It is the study of the nucleus of the atom along with its interaction and constitution. It deals with the sub-nuclear particles and their potential energies and the application of these nuclei along with the sub-nuclear particles. The concepts of nuclear fission and fusion are important concepts of Nuclear Physics.

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Web: <https://sumthingtasty.co.za/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

