

A Levels Physics Notes

Health physics

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Health physics, also referred to as the science of radiation protection, is the profession devoted to protecting people and their environment from potential radiation hazards, while making it possible to enjoy the beneficial uses of radiation. Health physicists normally require a four-year bachelor's degree and qualifying experience that demonstrates a professional knowledge of the theory and application of radiation protection principles and closely related sciences. Health physicists principally work at facilities where radionuclides or other sources of ionizing radiation (such as X-ray generators) are used or produced; these include research, industry, education, medical facilities, nuclear power, military, environmental protection, enforcement of government regulations, and decontamination...

AP Physics

college-level course in mechanics; AP Physics 1, an alternative to AP Physics C: Mechanics that avoids calculus but includes fluids; AP Physics C: Electricity

Advanced Placement (AP) Physics is a set of four courses offered by the College Board as part of its Advanced Placement program:

AP Physics C: Mechanics, an introductory college-level course in mechanics;

AP Physics 1, an alternative to AP Physics C: Mechanics that avoids calculus but includes fluids;

AP Physics C: Electricity and Magnetism, an introductory calculus-based treatment of electromagnetism; and

AP Physics 2, a survey of electromagnetism, optics, thermodynamics, and modern physics.

Each AP course has an exam for which high-performing students may receive credit toward their college coursework.

Physics

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Physics is the scientific study of matter, its fundamental constituents, its motion and behavior through space and time, and the related entities of energy and force. It is one of the most fundamental scientific disciplines. A scientist who specializes in the field of physics is called a physicist.

Physics is one of the oldest academic disciplines. Over much of the past two millennia, physics, chemistry, biology, and certain branches of mathematics were a part of natural philosophy, but during the Scientific Revolution in the 17th century, these natural sciences branched into separate research endeavors. Physics intersects with many interdisciplinary areas of research, such as biophysics and quantum chemistry, and the boundaries of physics are not rigidly defined. New ideas in physics often...

Crayon Physics Deluxe

seventy levels, and also features a level editor and an online Playground, where players can upload and download custom levels. Crayon Physics, the original

Crayon Physics Deluxe is a puzzle video game designed by Petri Purho and released on January 5, 2009. An early version, titled Crayon Physics, was released for Windows in June 2007. Deluxe won the grand prize at the Independent Games Festival in 2008. It features a heavy emphasis on two-dimensional physics simulations, including gravity, mass, kinetic energy and transfer of momentum. The game includes a level editor and enables its

players to download and share custom content via an online service.

Engineering physics

be offered at the levels of B.Tech., B.Sc., M.Sc. and Ph.D. Usually, a core of basic and advanced courses in mathematics, physics, chemistry, and biology

Engineering physics (EP), sometimes engineering science, is the field of study combining pure science disciplines (such as physics, mathematics, chemistry) and engineering disciplines (computer, nuclear, electrical, aerospace, medical, materials, mechanical, etc.).

In many languages, the term technical physics is also used.

It has been used since 1861, after being introduced by the German physics teacher J. Frick in his publications.

National Centre for Physics

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The National Centre for Physics (NCP) is a federally funded research institute and national laboratory co-located near Quaid-i-Azam University in Islamabad, Pakistan.

Founded in 1999, the site is dedicated to the understanding and advancement of the physical sciences and mathematical logic. It closely collaborates and operates under the quadripartite supervision of International Centre for Theoretical Physics (ICTP) in Italy, CERN in Switzerland, and the Pakistan Atomic Energy Commission (PAEC).

Cloud physics

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Cloud physics is the study of the physical processes that lead to the formation, growth and precipitation of atmospheric clouds. These aerosols are found in the troposphere, stratosphere, and mesosphere, which collectively make up the greatest part of the homosphere. Clouds consist of microscopic droplets of liquid water (warm clouds), tiny crystals of ice (cold clouds), or both (mixed phase clouds), along with microscopic particles of dust, smoke, or other matter, known as condensation nuclei. Cloud droplets initially form by the condensation of water vapor onto condensation nuclei when the supersaturation of air exceeds a critical value according to Köhler theory. Cloud condensation nuclei are necessary for cloud droplets formation because of the Kelvin effect, which describes the change...

The Feynman Lectures on Physics

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The Feynman Lectures on Physics is a physics textbook based on a great number of lectures by Richard Feynman, a Nobel laureate who has sometimes been called "The Great Explainer". The lectures were presented before undergraduate students at the California Institute of Technology (Caltech), during 1961–1964. The book's co-authors are Feynman, Robert B. Leighton, and Matthew Sands.

A 2013 review in Nature described the book as having "simplicity, beauty, unity ... presented with enthusiasm and insight".

Atomic, molecular, and optical physics

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Atomic, molecular, and optical physics (AMO) is the study of matter-matter and light-matter interactions, at the scale of one or a few atoms and energy scales around several electron volts. The three areas are closely interrelated. AMO theory includes classical, semi-classical and quantum treatments. Typically, the theory and applications of emission, absorption, scattering of electromagnetic radiation (light) from excited atoms and

molecules, analysis of spectroscopy, generation of lasers and masers, and the optical properties of matter in general, fall into these categories.

History of physics

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Physics is a branch of science in which the primary objects of study are matter and energy. These topics were discussed across many cultures in ancient times by philosophers, but they had no means to distinguish causes of natural phenomena from superstitions.

The Scientific Revolution of the 17th century, especially the discovery of the law of gravity, began a process of knowledge accumulation and specialization that gave rise to the field of physics.

Mathematical advances of the 18th century gave rise to classical mechanics, and the increased use of the experimental method led to new understanding of thermodynamics.

In the 19th century, the basic laws of electromagnetism and statistical mechanics were discovered.

At the beginning of the 20th century, physics was transformed by the discoveries...

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