



Turning Complexity into Curiosity: The Importance of Quantum Physics and Game-Based Learning

History of Quantum Physics

Before understanding quantum physics, we will first learn the history of quantum physics briefly. Quoting the book "Quantum Physics" written by Nurlina, the concept of quantum physics was discovered after scientists realized that there were things that could not be explained using the physics approach at that time (classical physics).

To be precise, it was towards the 19th century, when a scientist named Max Planck discovered the fact that classical physics failed to explain the distribution of energy in the spectrum emitted by a black body.

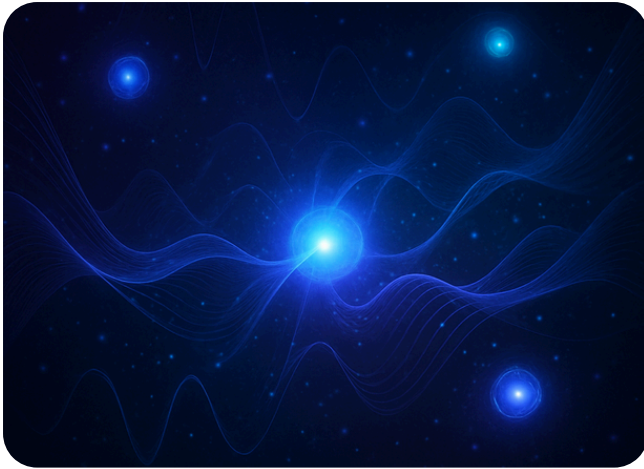
Understanding Quantum Physics

We are all familiar with the concepts of physics that we often observe in everyday life and are taught in school, for example the concept of physics in running, playing ball, pushing a table, car movement, and the like. The concept of physics is based on Newton's laws so we call it Newtonian physics or classical physics.

Unlike classical physics which studies microscopic phenomena, quantum physics is a branch of physics that studies microscopic things such as the characteristics or properties of matter and atomic energy, subatomic and even smaller than subatomic. This is quoted from a book entitled The Physics of Quantum Mechanics written by James Binney and David Skinner.



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Benefits of Quantum Physics

Although filled with complicated physics concepts and mathematical equations, quantum physics has various benefits in various fields. For example, in the field of computers, quantum physics is able to utilize the principle of superposition to solve complex problems that have not been solved by classical approaches. It is also able to explain the distribution of energy in the spectrum emitted by a black body.

Solutions to make quantum physics easier to learn

because of the importance of quantum physics for us, the solution to make it easier for students to learn quantum physics is to make this quantum physics lesson interesting, we have provided quantum physics learning based on games that we have created, this game aims to make it easier for students to learn quantum physics, and to make quantum physics interesting with a game base so that students like quantum physics lessons and are interested in studying quantum physics more deeply



This article discusses quantum physics starting from history, definition, benefits, to solutions to make physics lessons easier. That's all from us.



Credit

