

## **APPLICATIONS OF QUANTUM TUNNELING EFFECT**



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### **Quantum tunnelling Wikipedia**

Quantum tunnelling or tunneling (see spelling differences) is the quantum mechanical phenomenon where a subatomic particle passes through a potential barrier that it cannot surmount under the provision of classical mechanics.. Quantum tunnelling plays an essential role in several physical phenomena, such as the nuclear fusion that occurs in main sequence stars like the Sun.

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### **Field electron emission Wikipedia**

Terminology and conventions. Field electron emission, field-induced electron emission, field emission and electron field emission are general names for this experimental phenomenon and its theory. The first name is used here. Fowler Nordheim tunneling is the wave-mechanical tunneling of electrons through a rounded triangular barrier created at the surface of an electron conductor by applying

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### **Quantum mechanics Applications of quantum mechanics**

Applications of quantum mechanics. As has been noted, quantum mechanics has been enormously successful in explaining microscopic phenomena in all branches of physics. The three phenomena described in this section are examples that demonstrate the quintessence of the theory.

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### **quantum mechanics Definition Development Equations**

Quantum mechanics: Quantum mechanics, science dealing with the behavior 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 constituents electrons, protons, neutrons, and other more esoteric particles such as quarks and gluons.

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The earliest steps in the development of quantum physics arose from the investigation into something as mundane as why metal glows red when hot. The great German physicist Max Planck had been studying the problem of black body radiation in the late 1890s. The problem Planck was dealing with was the observation that the greatest amount of energy being radiated from a black body (or any

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