The energy of the vacuum related to the theory of energy absorption

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Abstract. The primary objective in this article is to investigate a new source of renewable energy, the existence of the vacuum in five environments, and the possibility of absorption of the explosion. The study has also addressed the development of new principles in the motor industry, protection against explosions, new principles of mineral processing and new types of explosives. Also, this study may offer some insight into new approaches in solving problems in thermodynamics, the development of gravity waves, the basis of renewable energy source, and the mechanism of the emergence of gravitational waves.

Everything is relative in this world. Also, the potential and kinetic energy of the body can be absorbed meeting barrier, reducing the rate to zero and granulating the body part. Now this concept does not exist. But the discrepancy of the Laws of Newton and Einstein must be overcome. I do not seem to sound appealing, do I? However, energy absorption of the vacuum certainly deserves attention. The nature of the vacuum is known in the Universe, in air and water environments.

The interaction of bodies is characterized by the potential energy. Kinetic is the movement of the body. And potential and kinetic energy change as a result of the interaction of bodies, whose acting on the body forces perform work that is different from zero.

If we consider the energy changes in the interactions of bodies, forming a closed system, several bodies interacting only by gravitational forces and elastic forces and no external forces do not act on them, if there are any interactions of the bodies of work of elastic forces or gravitational forces equal the change in potential energy of the bodies, taken with the opposite sign. The energy of a moving body depends on its speed.

From the formula of Einstein

$$E = mc^2,$$

you can come to the conclusion that energy and body mass are one, and also confirms that energy is a scalar characteristic of matter in motion.

Vacuum is a special medium material, which is not inherent in the properties and peculiarities of existence of matter, but energy absorption of vacuum has tremendous strength that is comparable to a thermonuclear reaction. To do this, fair formula:

$$E = mv^2,$$

where $v$ is the absorption rate of vacuum close to the speed of propagation of electromagnetic waves must also be constant for each environment (gas, liquid, solid rock, fire, and the actual vacuum with
different density of the vacuum in outer space). The speed of propagation of electromagnetic wave is equal to the known constant of 299 792 458 ± 1.2 m/s.

It was the accidents at the Sayano-Shushenskaya hydroelectric power station (figures 1, 2) and the mine Raspadskaya that helped create the theory of energy absorption because I personally took direct or indirect part in the investigation. The safety of the miners was in the first place.

In the strata of the Earth. On the Raspadskaya mine, when the accident occurred avalanche emission of methane, there was working in the mine a harvester company “Joy”, with a capacity of 1 000 t/h. As is known, methane at a certain concentration can ignite itself. After the explosion there was a shift of the working layer, the vacuum formed a cavity, is initialized and exploded.

Mixed with methane, where the concentration has reached the explosive state, followed by rock burst (the second explosion), resulting in the creation of fractured area on the seam and copious methane (shale gas technology). Methane is explosive at concentrations from 4.4 to 17 %.

Sir Humphry Davy (chemist) in 1813, concluded from their analysis that the mine gas is a mixture of methane CH$_4$ with a small amount of nitrogen N$_2$ and carbon dioxide CO$_2$, i.e. that it is qualitatively identical in composition to the gas emitted from swamps.

What is the oxidation? Uncovered through the formation surrounding the incision Raspadsky. Again a controlled situation is not achieved, and there occurs the third explosion of methane–coal–dust mixture (so-called vacuum explosion, which burns out the oxygen). All explosions create a vacuum space. Due to the expansion of vacuum space, shock wave occur (figure 3).

Figure 1. The time of the surge.  
Figure 2. The scheme of destruction after the surge.  
Figure 3. Area expansion during the explosion.  
Figure 4. A zone of compression after the explosion.
Wave process supports the reduction of the vacuum, there is a pulse of shock waves. With the explosion of dust–air mixture, the volume of the vacuum burnout much higher point of explosion, therefore, the wave of destruction is much stronger. Quite well shows the effects of wave motion in the works of academician V Adushkin.

If you remember the test of a hydrogen bomb and the description in the papers that the shock wave circled 4 times the globe. How would accumulative the explosion of the directed action. It was pulsing shell of the Earth, which at its stretching could simply collapse and be absorbed by the vacuum of space (figure 4). It was clear to academician A Sakharov, member of the creation of the hydrogen bomb. On this principle black holes are formed.

After the earthquakes in the strata of the Earth, there is a displacement of the monolithic slabs in areas of faults, forming a vacuum cavity (figure 5).

![Model of creation of vacuum in a coal seam](image)

**Figure 5.** How vacuum emerges in the strata of the Earth.

A vacuum cavity occurs when the displacement of rock slabs, especially dangerous in steeply inclined coal seams, when the concentration of methane reaches a very dangerous level.

In the air. With air flow, with temperature difference, turbulence arises – an appendage vacuum. In the zone of turbulence, jets starts to shake, causing the flutter, and turboprop begin to fall in the air holes. A good example, perhaps, happened with the Malaysian Boeing over the Atlantic. In vacuum space there was a blow of air masses, where the plane, which instantly collapsed?

The presence of the vacuum spaces is well characterized by the Bermuda triangle when there are many ocean currents and the movement of air masses and creates vacuum cavity that swallows ships and aircraft.

In the fire. During combustion, especially high-rise buildings, due to the temperature difference between the combustion of different composite materials, are vacuum gaps, which are due to wave dynamics (Adushkin V) to spread the fire fast speeds.

Especially dangerous crown fire in the forest that creates the wave motion of the fire, where the hot air and the top layer with a lowered temperature creates a wind effect from the vacuum pulses.

In space (vacuum). In the vacuum of space vacuum observed layers with different degrees of sparseness (density), which create black holes. Also a black hole absorbs a galaxy and the planet with the violation of the energy balance thereof, with a damaged shell, which will allow previously inaccessible to study the effects of strong gravity.

With the destruction of the ionosphere of the Earth by a nuclear explosion all the living and the dead can be placed freely in the newly formed black hole.

This is a hypothesis, but they deserve attention, in the present state of science, we learned to blow up, but they can't absorb explosions, save the shell of the Earth.
Independently, staff has developed vacuum-air engine, instead of internal combustion engine, where one cylinder receives vacuum and the other compressed air from receiver. Not allocated at the same temperature. The efficiency of the engine after manufacture, to be determined.

In space such an engine to operate easier, it does not need vacuum pump and receivers. Such an engine generator can provide the vital functions of the spacecraft (constrained by the presence of compressed air (gas) or circulated fluid – the heavier the environment in which a vacuum is created, the higher energy absorption, whether it be air, helium, water, transformer oil. Theoretically, the vacuum can be created in any gas, if in nitrogen, such grenades can extinguish the fire if the methane, it can explode. All this is already applied in practice.

Vacuum – renewable source of energy, comparable to nuclear fusion, which is supposed to curb!

Working on the theory of energy absorption, a vacuum unit and motors have been invented. Chipper vacuum for the purpose of adsorption was invented, in Irkutsk, acted in the Institute, which bankrupted the author died.

The copyright certificate on the vacuum 4-stroke engine, which schematically, excluding the mass of the piston was designed for the idea in Kazakhstan.

Vacuum pneumatic tool, high destructive power and crusher have specific settings that allow you easier to destroy rocks. Information: in mineral processing, crushing energy ranges from 30 to 90 %, depending on the strength of the rocks. It should be clarified that metronome coal, during crushing and extraction of moisture (adsorption) can create a threat of explosion concentration of methane.

This gives new opportunity to the development of the industrial potential of the vacuum community!

Theory of energy absorption should be focused on the development and implementation (this is not a dogma):

– new principles of enriching of coal;
– study and development of the theory and practice of physical and technical vacuum, according to the theory of energy Absorption;
– personal protection for the rescuers and miners;
– downhole and crosscut proof installations;
– absorbers of the explosion in the terrorist attacks;
– vacuum filter fire;
– air-vacuum engine;
– liquid-vacuum engine;
– rotary vacuum crushing;
– excess speed movement principles of underwater objects;
– new mechanisms and systems for destruction of rocks;
– new technologies and the principles of enrichment of minerals and extract them from the poor rocks and tailings of processing plants;
– new types of industrial explosives;
– transfer of coal into a higher quality;
– new methods and blasting methods.

This is not a complete list of everything new and perfect that you can perform and produce on the basis of the theory of energy absorption.

The article talks about a new source of renewable energy, the existence of the vacuum in five environments, the possibility of absorption of the explosion, the development of new principles in motor engineering, protection against explosions, new principles of mineral dressing, new explosives, new approaches to solving problems in thermodynamics and the development of the gravitational wave, the change of the basic energy carriers.

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