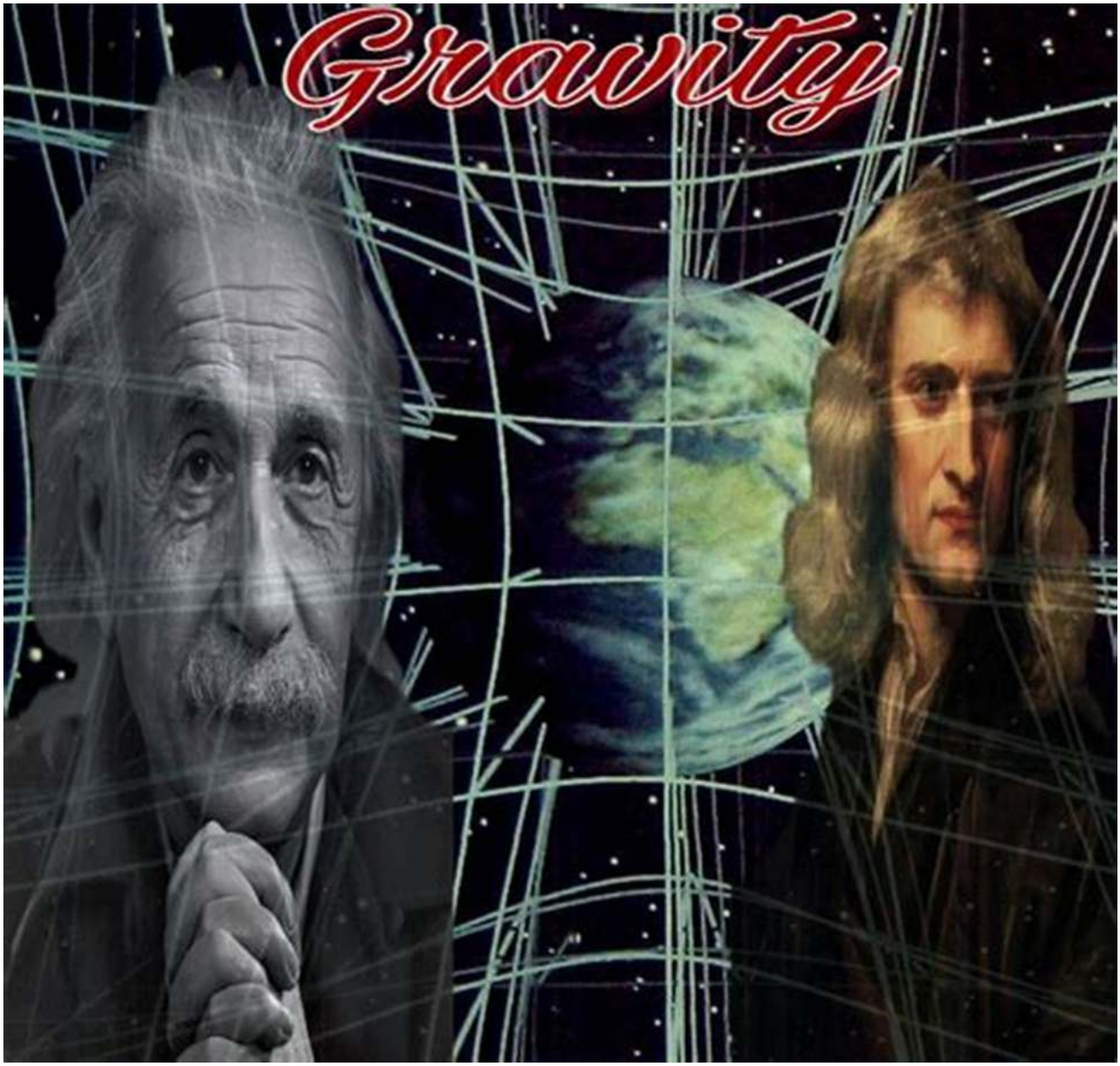
Exploring the Fascinating Journey of Gravity After Newton and Einstein



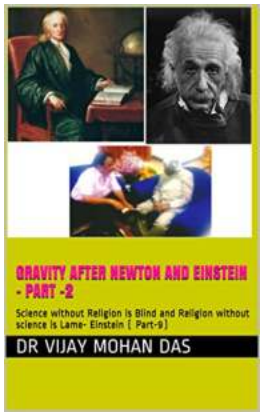
The Evolution of Our Understanding of Gravity

Gravity, the force that governs the motion of celestial bodies and keeps our feet firmly on the ground, has intrigued scientists for centuries. As our knowledge of the universe expanded, so did our understanding of gravity. In this article, we will

take a closer look at the remarkable journey of gravity after the groundbreaking contributions of Sir Isaac Newton and Albert Einstein.

The Revolutionary Work of Sir Isaac Newton

In the late 17th century, Sir Isaac Newton revolutionized our understanding of gravity with his laws of motion and universal gravitation. He described gravity as a force that attracts any two objects with mass towards each other. Newton's laws of motion provided a mathematical framework to explain the motion of objects under the influence of gravity, paving the way for a new era of scientific exploration.



Gravity After Newton and Einstein - part -2: Science without Religion is Blind and Religion without science is Lame- Einstein (Part-9)

by Brian McCormick (Kindle Edition)

4.6 out of 5

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Einstein's Theory of General Relativity

It wasn't until the early 20th century that Albert Einstein presented his theory of general relativity, which provided a more comprehensive explanation of gravity. According to Einstein, gravity is not simply a force, but rather a curvature in the fabric of space-time caused by massive objects. His theory unified gravity with the concept of space and time, challenging the traditional Newtonian view.

Advancements in Modern Astrophysics

Following the groundbreaking work of Einstein, scientists delved deeper into the mysteries of gravity. Modern astrophysics has allowed us to observe the effects of gravity on an astronomical scale, from the behavior of galaxies to the bending of light around massive objects. Techniques such as gravitational lensing and the study of black holes have provided invaluable insights into the nature of gravity and its impact on the universe.

The Search for a Unified Theory of Everything

Despite all the progress made, there is still much we don't know about gravity. Scientists continue to search for a unified theory of everything that can reconcile general relativity with quantum mechanics, the theory that describes the behavior of particles on a very small scale. This quest for a complete understanding of gravity has led to fascinating speculations and the exploration of string theory, loop quantum gravity, and other cutting-edge concepts.

Emerging Frontiers: Gravity in the Quantum Realm

One of the most exciting frontiers in the study of gravity is its integration with quantum mechanics. Understanding how gravity operates at the quantum level is a major challenge for physicists. The existence of theoretical particles called gravitons, which mediate gravitational forces in a manner similar to photons transmitting electromagnetic forces, is a subject of intense research. Unlocking

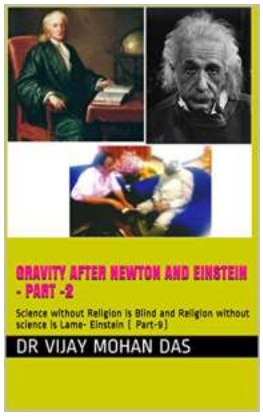
the secrets of quantum gravity has the potential to revolutionize our understanding of the fundamental forces that shape the universe.

Implications of a Deeper Understanding of Gravity

A deeper understanding of gravity could potentially revolutionize various fields, from cosmology and astrophysics to the development of advanced technologies. It could lead to breakthroughs in space travel, energy generation, and even the exploration of parallel universes. By unraveling the mysteries of gravity, we may unlock new possibilities and gain a profound insight into the nature of our existence.

The journey of gravity after Newton and Einstein has been a remarkable one. From Newton's laws of motion to Einstein's theory of general relativity, our understanding of this fundamental force has expanded and evolved. We have witnessed extraordinary advancements in astrophysics, ventured into the realm of quantum gravity, and pushed the boundaries of our knowledge. As we continue our exploration, one thing remains certain - the universe's most enigmatic force will continue to captivate and inspire us for generations to come.

Keywords: gravity, Newton, Einstein, general relativity, astrophysics, quantum gravity, fundamental forces, space travel



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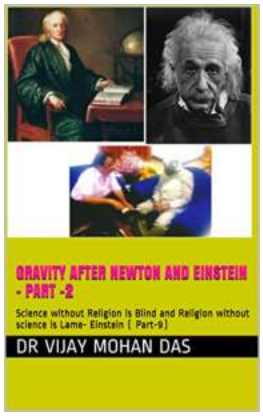
Apart from attraction property to center of mass (M1) which is due to Mind when (M2) is near (M1), it also gives energy (Primary bosons and secondary boson) to the interacting unit (M2) for work done . Hence it is not simple graviton (primary fermions) rather it is energized gravitons (secondary fermions) as it gives energy to interacting system (M2). This energy is stored as dark energy in energized gravitons or functional energy (F.E.)of the universe. Hence all bosons are also secondary bosons and they are made up of primary bosons. Now nature is increasing in size also . As B.B.Bs have mass , by virtue of this property of B.B.Bs, all secondary fermions (energized graviton) and secondary bosons (vector bosons and Higg's) have mass , including photons, gluons. During decay of quarks or say protons they are liberated from the source (M1) as string of energized gravitons and their first function is to hold electron (M2) in orbit. Having left the atom these energized gravitons become low energy energized gravitons . Their second target is Photon (M2) of massive body to give gravitational red shift. The third Target is bending of starlight or photon (M2) .The fourth target is planetary motion in orbit or to hold planets in orbit (M2) . The fifth target is inter orbital shift of comet (M2)and asteroid (M2) . If energized gravitons belong to Cold dark matter layer (M1) , the (M2) would be receding galaxies making Hubble law in the universe . If energized gravitons belong to center of mass of galaxy (M1) , then the tangential motion of stars of galaxy is (M2) seen . Similarly

on earth energized gravitons of earth (M1) causes , weight of object (M2), fall under gravity and acceleration g during fall of object (M2) , and interaction with increase in velocity (increased energy inertial mass (M2) of electron in CRO . Charged property of quarks and charged and magnetic property of electron are maintained by Functional energy of energized gravitons or due to their decay . Thus indirectly charge and magnetic property of proton and electron or nucleus are maintained by their energized gravitons which form them. Energy liberated in nuclear fission and fusion also comes from this energy pool of universe (F.E. of energized gravitons). Generation of electrical energy of Damp (turbines) comes from same energy pool. Magnetic property of planets and suns are also being formed by energized gravitons . . Our cellular respiration is maintained by energized gravitons of sun .Hence they are the tiniest battery of the universe and without their existence , structure and function of particles , atoms , universe and life is impossible . So calling them hypothetical particles and making them weakest force of universe and making their existence only during early universe of expansion (quantum gravity era) or making gravity is property of space time are all spurious ideas. There are many phenomena which are being controlled by energized gravitons like phenomenon of binary system, merging galaxies, slowing of atomic clock in high gravitational field , inter-orbital shift of comet , electrons , asteroids and pulsar phenomenon . Fate of stars is also controlled by energized gravitons as energy supplied for work done (reverse H.R. diagram activity) during death of the star (Red Giant) is given by energized gravitons of neutron star.



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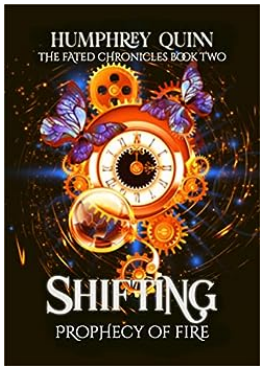

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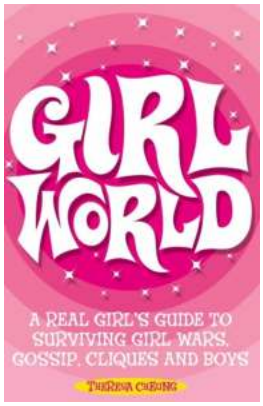

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