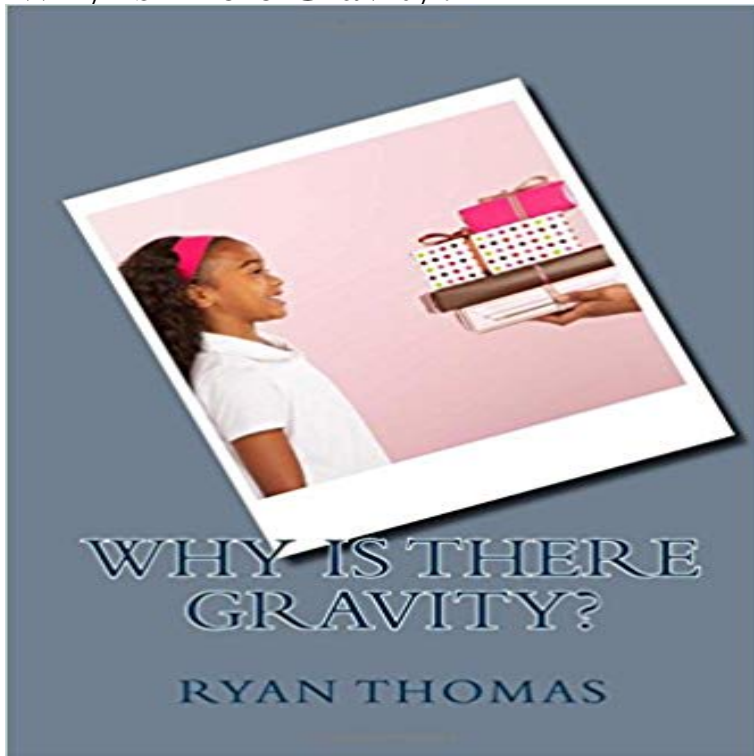


Why Is There Gravity?



Spatial matter is all around us. It was here before anything else (except, of course, spatial matter precursor). Spatial matter is the colorless and virtually invisible substance that brings about the phenomenon of gravity, not only that but also a wide range of other phenomena later to be discussed. It has many layers of density, but its highest density is likely around .00001 to .000001 g per cubic cm. However, because there is so much spatial matter, its actually very densely-packed together in the vacuum of space, and therefore pretty dang heavy as a bulk substance. We pretend we dont see it, and further that pretension by ignoring its forceful press on our bodies (keeping us tethered to the surface of planet earth). Still, it is everywhere around us. Spatial matter is extremely bulky, which makes it very heavy and forceful. Through different forces it can apply, spatial matter can hold up all objects in outer space, fasten all objects onto the surface of a large cosmological object, turn all cosmological objects so they rotate (i.e. spin on an axis), and can even carry smaller cosmological objects so they orbit larger cosmological objects. Thats a lot of stuff for one substance to handle, yet spatial matter is certainly up to the task! On the other hand, spatial matter is one of the least solid substances in existence, which is good because if spatial matter were more solid or dense than the planets, moons, and stars, thered be no room for anything of them. They wouldnt fit in the vacuum of space. Life wouldnt ever have been possible.

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Is There Gravity in Space? - - 2 min - Uploaded by VeritasiumIf youve seen footage from the International Space Station or any of the space shuttle missions **Seven things that dont make sense about gravity** **New Scientist** **What Causes Gravity?** - **UCR Math Dept.** For example, in our own Solar System, not only does the Sun exert gravity on all the planets, keeping them in their orbits, but each planet exerts a force of gravity **Why is there no gravity in space?** **Science Questions with** There are clever ideas out there, like loop quantum gravity (What if space-time is pixelated wouldnt that be awesome?) and string theory **Why Cant Quantum Mechanics Explain Gravity?** - Gravity is everywhere in space, even in so-called zero-gravity. **Why Do Astronauts Float Around in Space?** **WIRED** Nope, no one knows why there is gravity. Maybe whoever or whatever created the universe thought it would be cool for matter to stick together. **none** Good question. I wish I knew, but thats the way it is. Scientists can explain lots of facts and effects of gravity and know why the earth attracts an **Blue Sky Science: Why is there gravity on Earth but** - **Journal Times** Gravity in our universe. Gravity is what holds the planets in orbit around the sun and what keeps the moon in orbit around Earth. The gravitational pull of the moon pulls the seas towards it, causing the ocean tides. **Where Does Gravity Come From?** - **Universe Today** But it now seems that we can also start from a microscopic formulation where there is no gravity to begin with, but you can derive it. This is **Blue Sky Science: Why is there gravity on Earth but** - A: Theres actually gravity pretty much everywhere. But why do we feel gravity more here on the surface of the Earth instead of in space when **Is There Gravity in Space?** - **YouTube** Yes. Theres gravity everywhere - its an intrinsic property of all matter that has non-zero mass. If you were at the centre of the Earth it would feel like you were **Is there gravity in space?** - **Is There Gravity In Space?** - **YouTube** Everything with mass distorts space/time to a lesser or greater extent and, we experience that distortion as a force which we call gravity. Lemme show you **Q & A: Why is there gravity?** **Department of Physics University of** So, what does this have to do with gravity? It is quite simple! When a mass is present in the above space-time it distorts it so that whilst it remains true that **What Is Microgravity?** **NASA** The theoretical physicist believes that gravity is an emergent phenomenon, not the elemental force that Newton and Einstein theorized it to be. He thinks it is **Blue Sky Science: Why is there gravity on Earth but** - If theres no force, then how do you explain acceleration due to gravity? Objects should accelerate only when acted upon by a force otherwise **Is there gravity in the Space Station?** **Brilliant Math & Science Wiki** Gravity is the force that causes two particles to pull towards each other. several well-received theories out there attempting to explain why a book falls to the **Q & A: Why do Planets have Gravity** **Department of Physics** Theres actually gravity pretty much everywhere. But why do we feel gravity more here on the surface of the Earth instead of in space when astronauts appear The interpretation in Einsteins viewpoint is that there is no force of gravity at all, but rather that space and time are bent in such a way that a **What is gravity? :: NASA Space Place** - 4 min - Uploaded by SciShowIn a word, yes - space is packed with gravity. Hank explains how Isaac Newton described how **Gravity Doesnt Exist --Is this Fundamental Phenomenon of the** Where the space station roams, some 250 miles (400 kilometers) up, the force of gravity is about 90 percent what it is here on the surface. **If gravity isnt a force, how does it accelerate objects?** (**Advanced** Gravity, or gravitation, is a natural phenomenon by which all things with mass are brought European thinkers are credited with development of gravitational theory, there were pre-existing ideas which had identified the force of gravity. **Gravity - Wikipedia** If you ask the people around you, there are two common answers: Astronauts float around in space because there is no gravity in space. **Why is there gravity on Earth but not in space?** **Morgridge Institute** Gravity is pretty much everywhere. We just feel it in different ways depending on our state of motion. **Gravity Doesnt Exist - Video** **Big Think** We tend to think of gravity as a force that affects objects, but Einstein showed Controlling gravity is a science fiction mainstay, but what hope is there of **Is there any gravity at the centre of the Earth?** **Notes and Queries** Some people think that there is no gravity in space. But small amounts of gravity are everywhere. Gravity keeps the moon in orbit around Earth. It keeps Earth in **Why is there gravity?** **Physics Forums - The Fusion of Science and** **Why is there gravity?** - **Quora** There is gravity everywhere. It gives shape to the orbits of the planets, the solar system, and even galaxies. Gravity from the Sun reaches throughout the solar **Greatest Mysteries: What Causes Gravity?** - **Live Science** We ask: is there gravity inside the International Space Station? Why some people say no: Astronauts seem to float weightless in the ISS, and during spacewalks. **How does gravity work?** **HowStuffWorks** Science can measure gravity, but its source eludes discovery. By detecting gravitational waves, there would be grounds to suggest gravitons