

Artificial Gravitational Fields and a Revolutionary New Propulsion System

We theorized that a gravitational field is the region surrounding an energy structure in which there is an imbalance between the inward forces acting upon the energy structure and the outward forces moving away from it. We also theorized that the acceleration due to gravity that an object experiences within a gravitational field is the result of an imbalance of the inward forces acting upon the object.

If these descriptions are accurate, then the acceleration due to gravity that an object experiences is completely independent of the other body whose presence causes a gravitational field. If the body were not there, its gravitational field would not be there; however, an object's acceleration is, nevertheless, due only to the imbalance of the inward forces acting upon the object.

By utilizing these concepts of what gravity and gravitational fields are, a revolutionary new type of propulsion system could be developed in the near future. The core of this new propulsion system would be some type of electromagnetic field generator that allows the operator of a vehicle to manipulate the intensity of the inward forces acting upon all points of the vehicle.

The inward forces acting upon the vehicle at its front could be redirected and caused to act upon the vehicle at the rear, thereby causing an imbalance in the inward forces acting upon the vehicle. This imbalance will cause a forward acceleration of the vehicle that would be identical to the acceleration that the vehicle would experience in a gravitational field. We could

consider this electromagnetically induced imbalance of the inward forces acting upon the vehicle to be an artificial gravitational field because it would be generated by mechanical and electrical means rather than the presence of a large body in proximity to the craft.

This new propulsion system could be used on Earth to more efficiently move ships through the water, propel submarines, and propel civilian and military vehicles, including aircraft. With this technology, the shape of aircraft will change considerably. These craft will be able to hover in place and take off and land vertically simply by reducing the inward force pushing the craft down toward the ground while increasing the inward force in the opposite direction. They will have the ability to travel at almost any speed and will be able to change direction rapidly without regard for normally encountered "G" forces. Because the inward forces acting upon the craft will be manipulated by its operator, the craft and all matter within the artificial gravitational field will exist in an inertial state independent of that surrounding the craft. This craft could be designed to be air, water, and vacuum tight, so that it could operate under water, within the atmosphere, and outside of the atmosphere.

Because origo, which is everywhere, will be the driving force behind this propulsion system, a vehicle could gain thrust in almost all environments and under almost any conditions. It may have trouble near any body that produces intense electromagnetic fields, unless those fields could either be incorporated into the propulsion system or negated.

The apparent vacuum of space will not pose a problem to this propulsion system, and it may operate better in this environment than in any other.

GRAVITY AND THE WARPING OF SPACE-TIME | 49

This document is being revised just weeks after the destruction of the space shuttle Columbia, which brings to mind the difficult maneuver of re-entry into Earth's atmosphere. This new propulsion system will make re-entry a simple and safe maneuver, removing the risks of high-velocity re-entry, atmospheric friction, and the resultant extremes of heat that pose a risk to every shuttle mission.

This technology will make rocket-powered vehicles obsolete.

The acceleration an object will experience due to an artificial gravitational field is identical to the acceleration due to a gravitational field resulting from a massive body. Therefore, a vehicle that is propelled in space by this system could reach extreme velocities. A technological advance of this type will not only make interstellar travel possible, but it will be our obvious next step and, therefore, will be unavoidable.

This type of propulsion system may enable us to travel at superluminal velocities.

This propulsion system will completely revolutionize our planet, changing everything from the way we transport people and goods to our methods of construction and destruction. However, this system will not operate on magic; a power source will be required to make it work.

The most likely abundant source of power to drive this technology will be nuclear fusion, which still has a long way to go before it will become available as a viable source of energy. On the other hand, this new propulsion system has just been conceived and development of it has not even begun, so, by the time this propulsion system is developed, it is likely that nuclear fusion will already be online. In addition, it may be that the development of this technology will play a key role in

making nuclear fusion a viable source of energy. It could be that this technology will allow us to generate containment fields that will withstand the intense heat of fusion reactions.

Another option for an unlimited power supply to fuel this new propulsion system is the same technology from which the propulsion system is itself derived. This technology, which allows us to regulate the inward forces acting upon an object, may also allow us to partially block the inward force acting on an object, thereby creating a condition wherein the energy stored within its atoms can be released. If we are able to control the rate of the energy release, we would be able to convert any type of matter into energy.

A spacecraft could harvest asteroids, gases, or any other matter that could be found for use as fuel to propel it through space and to meet all of its energy needs, including the energy required to power the energy extraction system.

This would be an unlimited, non-polluting energy source that could easily provide sufficient energy for our every need, both on Earth and off.

This new propulsion system could play a key role in the long-term survival of life on Earth. If we were to detect an asteroid, comet, or other large body on a collision course with Earth, this propulsion system would give us the capability to change its trajectory, thereby causing it to pass by the Earth at a safe distance. It could also be set on a course that would take it into deep space to prevent it from returning and posing a threat again at some point in the future.

This propulsion system will allow us to build ships that can travel at extreme speeds, enabling us to go into space and intercept such incoming bodies while they are still a great dis-

GRAVITY AND THE WARPING OF SPACE-TIME | 51

tance from Earth, and it could be done quickly. With this system, decades of lead-time will not be required to divert an incoming object; the task will probably be accomplished in a matter of months, weeks, or even days. Once the ship reaches the asteroid or other body, a propulsion system similar to the one propelling the ship could be attached to the body. Once it is in place, the system could be remotely controlled to direct the body on the prescribed course.

Another option, which may be simpler but will allow direct control of the body for a shorter period of time, will be the use of large ships designed to push bodies around, much like tug boats on the water. One or more of these ships could be stationed in orbit around our planet, constantly scanning space. When a body is found to be on a collision course with Earth, the ship would go out into space to meet up with the body and steer it away from Earth.

If any bodies are made of valuable materials and are small enough to be safely recovered, the ship could slow them down, capture them, and return them safely to a processing facility on Earth.

Alternatively, any bodies that are too large to bring to the surface of the Earth could be placed in orbit around the Earth or moon for mining.

In addition to ships for planetary defense, this propulsion system will make pleasure cruises to every planet in the solar system and beyond, everyday occurrences. The stuff of popular science fiction will become everyday reality.