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AN INTERESTING TAKE ON
Anti-Gravity Definition

A JACA ENGINE

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Anti-Gravity Definition

We do not have a definition for such a concept. Wikipedia attempted one: "a hypothetical phenomenon of creating a place or object that is free from the force of gravity".

We could not consider this word salad to define Anti-Gravity. Anti-Gravity cannot be a "phenomenon", a "place" or an "object". Our scientists are asleep at the switch. All they told us is that Gravity is a "fundamental mystery" that can manifest as force of attraction between objects with mass. Fine.

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Fundamental Mystery

Since not even Gravity can be defined beyond a "fundamental something something", you would expect the hypothetical Anti-Gravity to be also a "fundamental mystery", but of an opposing effect: a "fundamental mystery" that can manifest as force of repulsion between objects with mass.

If we can agree with this mirror-definition of Anti-Gravity, then in a sense we already have Anti-Gravity; much more than that, we are using it daily. To understand the concept, let's first attempt a more descriptive definition that can differentiate between the two opposing forces.

Gravity and Anti-Gravity

Gravity: is a fundamental interaction that causes mutual attraction between all things that have mass (Wikipedia); in space we would see a massive object forcing a smaller object to move from a far away position A to a close by position B, where the speed in the far away position is lower than the speed in close-by position.

Anti-Gravity: is a fundamental interaction that causes mutual repulsion between all things that have mass; in space we would see a massive object forcing a smaller object to move from a close-by position A to a far away position B, where the speed in the far away position is higher than the speed in close-by position (mirrored).

Do you see it yet?

Gravity is at the same time Anti-Gravity: sling-shot effect, aka gravity assist, aka centrifugal force. It is the one force responsible for expanding the universe. **GRAVITY** is what every man-made object flying in space is already using to

GAIN SPEED (ACCELERATE) AND MOVE AWAY FROM A MASSIVE CELESTIAL OBJECT WITH A STRONG GRAVITATIONAL FIELD

The final speed is much higher traveling away from a celestial body than the initial speed before the gravity assist maneuver; the object was closer to the celestial body before the gravity-assist maneuver and had lower speed.

Wait, what?

The best we know, Gravity has no polarity, it is not a magnetic force. True that, but gravity is a vectorial force, and the gravity assist maneuver makes use of gravity to greatly accelerate an object. How? Direction change! One must burn a truckload of propellant to change the direction of a space vehicle, to accelerate. Playing with the direction of a vector we can accelerate and move away from a celestial body.

How can we play with Gravity?

How can we play with the direction of a vector without using any propellant at all? Can we do it? A Gravity Well Ladder (dynamically and locally generated and harvested Centrifugal Force, aka Gravity Assist) can do that for us. Much more than that, as the definition of the Gravity Well Ladder tells us, we are not doomed to just sit by and passively wait for the just right opportunity to provide the goldilocks conditions for a Gravity Assist maneuver. We can actively generate and harvest Gravity Assist, we can generate and make use of a Gravity Well Ladder everywhere a gravitational field is present in the Universe (everywhere in the Universe), as described in the JACA Engine, **Gravity Assist-Propulsion Generator (patent pending)**.

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