

# "Gravity"

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*Source:* <http://sci.tech-archive.net/Archive/sci.physics/2008-03/msg00849.html>

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  - *Date:* Mon, 10 Mar 2008 10:52:50 -0400
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"Gravity"

Like almost everyone else, the writer started by assuming that General Relativity represented good science and that it was his task to understand that science. Almost immediately it became obvious that a flaw must exist somewhere in its derivation. Allegedly, General Relativity and Special Relativity followed The Principle of Equivalence but THEIR CONCLUSIONS WERE NOT EQUIVALENT! In a Force–Length–Time systems of units, Special Relativity and General Relativity provided:

Quantity Parallel Velocity General Relativity

Force  $F = \frac{1}{1 - v^2/c^2}$

Length  $L = \frac{1}{(1 - v^2/c^2)^{0.5}}$

Time  $T = (1 - v^2/c^2)^{0.5} \frac{G \cdot M_1 \cdot M_2}{(R \cdot C)^2}$

One does not need to be a rocket scientist to recognize that these transformations are NOT ANALOGOUS. Under Special Relativity, the transformations for length and time are reciprocal. Under General Relativity such a reciprocal relationship does not exist since the transformations for length does not exist.

It is the lack of such a reciprocal relationship that made it impossible for Dr. Einstein to solve the equations of General Relativity in terms of our familiar three dimensional Euclidean space. After struggling with the problem for about 18 months, he asserted that space was not three dimensional Euclidean but was curved into an unobservable fourth spatial dimension! He did not go back to see where a rather naive mathematical error was preventing the solution. This crutch allowed the mathematical equations to be solved since they added the degree of freedom that his error hid. The idea of "curved space" was accepted because "no one can prove it isn't curved". This is hardly a responsible justification for accepting a physical theory!

Since I wished to understand gravitation, I proceeded to derive the nature of the gravitational field by using two completely different and independent methods. ("There is more than one way to skin a cat.") Under both of these derivations, the following transformations were found:

"Gravity"

## "Gravity"

### Quantity Parallel Velocity General Relativity

Force  $F = 1$

Length  $L = \frac{1}{\sqrt{1 - v^2/c^2}} \frac{1}{G} \frac{M_1 M_2}{(R \cdot C)^2}$

Time  $T = \sqrt{1 - v^2/c^2} \frac{G M_1 M_2}{(R \cdot C)^2}$

The result satisfies the Principle of Equivalence since it provides reciprocal relationship between the transformations for length and time. These results yield a solution which is consistent with three dimensional Euclidean space. (Recent cosmological observations have shown that the space represented by the Universe as a whole is not "curved", it is three dimensional Euclidean.)

The correct derivation of gravitational theory described is provided in <http://einsteinhoax.com/gravity.htm>. The test for its validity is whether it agrees with both the results of observation and the results of theoretical derivations. The material presented passes this test. It agrees with the observations which are alleged to have verified General Relativity. The Sun's gravitational field is about 5 orders of magnitude too weak to reveal the difference between the two approaches. Observations of strong gravitational fields, such as around neutron stars, cannot differentiate between the theories without a close up observations of orbital parameters. Such a verification must await the availability of Star Trek's Warp Drive.

The advantage of the revised approach is that, among other results, it reveals the source of gravitational energy (force), allows the total energy of the Universe to remain constant over time, eliminates the idea of a singularities (no black holes), and explains the creation of Universes. The topics covered are:

### Summary of "Gravity"

#### Chapter Titles

- 1: – Introduction
- 2: – Laying the Groundwork
- 3: – Evaluating the Gravitational Conversion Factors
- 4: – Comparison with the "Real World"
- 5: – The Complete Gravitational Field

There are 50,000 words and 22 diagrams.

The source material for this posting may be found in <http://einsteinhoax.com/hoax.htm> (1997); <http://einsteinhoax.com/gravity.htm> (1987); and <http://einsteinhoax.com/relcor.htm> (1997). EVERYTHING WHICH WE ACCEPT AS TRUE MUST BE CONSISTENT WITH EVERYTHING ELSE WE HAVE ACCEPTED AS TRUE, IT MUST BE CONSISTENT WITH ALL OBSERVATIONS, AND IT MUST BE MATHEMATICALLY VIABLE. PRESENT TEACHINGS DO NOT ALWAYS MEET THIS REQUIREMENT. THE WORLD IS ENTITLED TO A HIGHER STANDARD OF WORKMANSHIP FROM

## "Gravity"

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