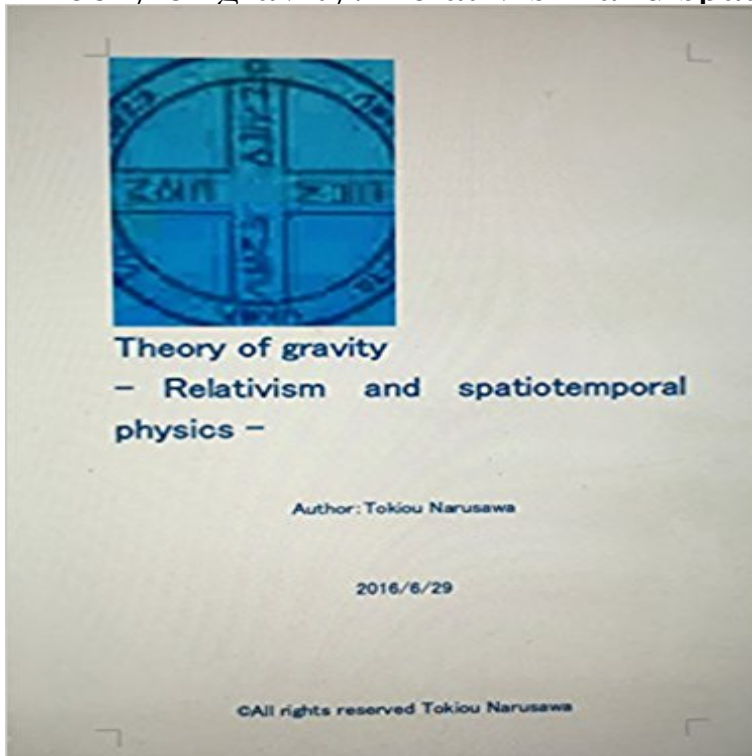


# Theory of gravity: Relativism and spatiotemporal physics



Gravity is a very mysterious force. In the natural world, but a number of mystery until this has been issued and Tokiakasa, gravity is still full picture Despite have provided a mystery from most human history old has not been elucidated. Consideration of the gravity with and would be started with human civilization birth. So gravity is a familiar presence. But the mystery is at the same time, it reveals a. Gravity of identity that it can be said that is also the advancement of the science of the human race along with the go, view of the world of humanity has been changed significantly. In recent years, succeeded in observation of gravitational waves, the human race has got a new telescope. This is second only optical telescopes, radio telescopes, infrared telescope, the gamma-ray telescope. It is expected that now can observe what happened finally in the big bang. Because gravity waves are very weak, the vibration of the 1,000Km destination also is observed as noise. Therefore, improvement has come added of observation equipment, was able to finally except for the noise. Currently, not only the earth, the earth around, the observation apparatus in three locations have been installed. Chapter 1 Introduction - History of gravity theory Chapter 2 Newtons gravitational theory and the special theory of relativity - Newtons gravity theory - Law of gravitation - Galileos equivalence principle - Action at a distance and proximity effect - Contradiction of classical physics - Special theory of relativity Construction of the column special theory of relativity - Newton gravity theory vs special theory of relativity Chapter 3 gravity and curved space - Einstein equivalence principle and the gravitational force - Gravitational redshift - The speed of light and the time of delay in the gravitational field (Mathematically substance called tachyon is movement beyond the speed of light.) -

Refraction of light - Experimental verification of the equivalence principle - Space-time is bent - Bending of uniform rotation system and the space Experimental verification of column gravitational redshift - Equation of motion in the gravitational field - Curved space-time - The birth of space-time physics Chapter 4 Riemannian geometry and general relativity - Riemannian geometry and the physical quantity and the laws of physics (Change of physics by the development of mathematics has been forced.) - Equation of motion and the geodesic equation - Ai Stein equation and its two roles: general relativity The birth of the theory Chapter 5 Einstein was right - The need for experimental verification - Schwarzschild solution - The trajectory of the particles in the Schwarzschild in space-time - Perihelion of Jupiter move - Refraction of light (Light by gravity is refracted.) - How Einstein - Verification experiment of the fourth - Attempt of non-column Einstein Chapter 6 Einstein prophecy: Part 1 Cosmology - Finite universe without boundaries - Cosmological principle - Of Einstein static cosmology - Friedman expanding universe of - The discovery of Hubble - Einsteins debacle Chapter 7 Einstein prophecy: Part 2 gravity waves (Why only gravity waves that the weak force? The United States, Lisa Landau According to the Le woman said, and because it has leaked from another parallel universe It is. Also dimension of the universe has been concluded that the 10-dimensional. Only And this is, mathematics and is contradictory. Messiah conclusion of (= me), 11 Is the dimension. Or a 23-dimensional. Dimension of the universe is a prime number There is a need the dimension. . The presence of parallel universe is not a prime number There would have been denied. ) - Of the gravity wave prophecy: linearization of Einsteins equation - Distortion of the space propagation: geodesic deviation equation - Gravity wave of the release mechanism - The existence of gravitational waves Energy of column gravitational

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