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An up-to-date description of progress and current problems with the gravitational constant, both in terms of generalized gravitational theories and experiments either in the laboratory, using Casimir force measurements, or in space at solar system distances and in cosmological observations.

## **The Gravitational Constant: Generalized Gravitational**

The Gravitational Constant: Generalized Gravitational Theories and Experiments edited by Venzo de Sabbata University of Bologna, Italy George T. Gillies

## **The Gravitational Constant: Generalized Gravitational**

The gravitational constant, also known as the universal gravitational constant, or as Newton's constant, denoted by the letter  $G$ , is an empirical physical constant involved in the calculation of gravitational effects in Sir Isaac Newton's law of universal gravitation and in Albert Einstein's general theory of relativity.

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Chapter 5. Gravitation Notes: ... where  $G=6.67 \times 10^{-11} \text{ N}\cdot\text{m}^2/\text{kg}^2$  is the universal gravitational constant,  $m_1$  and  $m_2$  the particles masses, and  $r$  the distance between them. Equation (5.1) is however not complete since the force due to gravitation is vectorial in nature. If we define the vectors  $\mathbf{r}_1$  and  $\mathbf{r}_2$  for the positions of  $m_1$  and  $m_2$ , respectively, and the unit vector that points from  $\mathbf{r}_1$  ...

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where is the gravitational constant, and is the mass. John Archibald Wheeler in 1967 John Archibald Wheeler in 1967 described this region of space as a "black hole" during a talk at the NASA Goddard Institute

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3 Here,  $G$  is the Universal Gravitational Constant. The word "universal" implies an assumption that its value is the same anywhere in the Universe, and the word "constant" implies

### **CHAPTER 5 GRAVITATIONAL FIELD AND POTENTIAL**

gravitational coupling constant  $G$  can also explain the growth of large scale structure formation without invoking cold dark matter. The running of the cosmological constant would

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