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Classical physics - Wikipedia

In particle physics, an elementary particle or fundamental particle is a subatomic particle with no substructure, thus not composed of other particles. Particles currently thought to be elementary include the fundamental fermions (quarks, leptons, antiquarks, and antileptons), which generally are "matter particles" and "antimatter particles", as well as the fundamental bosons (gauge bosons and ...

Elementary particle - Wikipedia

In problems concerning gravity on earth the acceleration (a) becomes approximately 9.8 meters per second squared (a). An object that starts from rest falls for one second at a speed of 9.8 m/s. After 2 seconds the speed is 19.6 m/s and after 3 seconds it is 29.4 m/s.

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2012 March 1, Jeremy Bernstein, "A Palette of Particles", in *American Scientist*, volume 100, number 2, page 146: The physics of elementary particles in the 20th century was distinguished by the observation of particles whose existence had been predicted by theorists sometimes decades earlier.

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Covariant Loop Quantum Gravity: An Elementary Introduction

"From conservation of energy to the principle of least action: A story line," Jozef Hanc and Edwin F. Taylor, American Journal of Physics, Vol. 72, No. 4, Aril 2004, pages 514-521. Conservation of energy is sufficient to predict motion in one dimension and for systems whose motion can be expressed as one independent coordinate.

Edwin F. Taylor - Principle of Least Action

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