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Additional material: Version 2 of Chapter 15 on Hamiltonian Mechanics is posted. (Section titles: Energy, Hamilton's equations, Legendre transforms, Three more derivations, Phase space and Liouville's theorem.) It has the same text as Version 1 but contains some new problems and exercises.

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Classical mechanics - Wikipedia

1.2 In physics, we assume that quantities like the speed of light ( $c$ ) and Newton's gravitational constant ( $G$ ) have the same value throughout the universe, and are therefore known

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as physical constants. A third such constant from quantum mechanics is Planck ' s constant ( $\hbar$ ), an  $h$  with a bar).

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The earliest development of classical mechanics is often referred to as Newtonian mechanics. It consists of the physical concepts employed and the mathematical methods invented by Isaac Newton , Gottfried Wilhelm Leibniz and others in the 17th century to describe the motion of bodies under the influence of a system of forces .