

A method for solving the period of a simple pendulum

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Abstract: A laconic method for solving nonlinear dynamic equation is established, and four new formulas for the period of a simple pendulum are obtained, furthermore the laconic approximation for complete elliptic integral of the first kind is obtained.

Key words: nonlinear; simple pendulum; period; variable be partly fixed; complete elliptic integral

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The roles of relativistic effect in chemistry

——Memory in the centenary anniversary of the theory of relativity

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Abstract: The relativistic effect is introduced, and it affects to the electron configuration and properties of the 6th periodic elements is discussed. The chemistry of gold, in which relativistic effect plays a significant role, and the chemistry of mercury and silver have compared and illustrated.

Key words: relativistic effect; orthogonality; electron configuration; gold; mercury; silver

动态信息

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