

Brownian Ratchets From Statistical Physics To Bio And Nano Motors

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In the philosophy of thermal and statistical physics, the Brownian ratchet or Feynman-Smoluchowski ratchet is an apparent perpetual motion machine first analysed in 1912 as a thought experiment by Polish physicist Marian Smoluchowski. It was popularised by American Nobel laureate physicist Richard Feynman in a physics lecture at the California Institute of Technology on May 11, 1962, during his Messenger Lectures series The Character of Physical Law in Cornell University in 1964 ...

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We consider the overdamped dynamics of a Brownian particle in an arbitrary spatial periodic and time-dependent potential on the basis of an exact solution for the probability density in the form of a power series in the inverse friction coefficient. The expression for the average velocity of a Brownian ratchet is simplified in the high-temperature consideration when only the first terms of the ...

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brownian ratchets from statistical physics to bio and nano motors brownian ratchets are devices that rectify microscopic fluctuations thus producing useful work out of a fluctuating environment the term brownian ratchet highlights two important elements required for the rectification of fluctuations to take place brownian ratchets assets 978

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Feynman's Brownian Ratchet Exercises and Problems 3 / 34 Ludwig Boltzmann, who spent much of his life studying statistical mechanics, died in 1906, by his own hand. Paul Ehrenfest, carrying on the same work, died similarly in 1933. Now it is our turn to study statistical mechanics. Perhaps it will be wise to approach the subject cautiously.

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Brownian ratchets are shown to feature a nontrivial vanishing-noise limit where the dynamics is reduced to a stochastic alternation between two deterministic circle maps (quasideterministic ratchets). Motivated by cooperative dynamics of molecular motors, here we solve exactly the problem of two interacting quasideterministic ratchets. We show that the dynamics can be described as a random ...

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Brownian ratchets are spatially periodic, nonequilibrium systems that harness stochastic fluctuations to generate currents and perform useful work. In this theoretical study of a two-dimensional ratchet, the authors analyze how reversals of the direction of the current depend on the way the system is driven.

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The essential theoretical formalism, rooted in non-equilibrium statistical physics, has been successfully applied to the description of physical principles underlying biological motors. In most cases, the principle behind the rectifying motion is the famous Feynman's ratchet and pawl model.

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The basic ideas of a Brownian ratchet goes back to the early twentieth century, when Smoluchowski analyzed a simple mechanical device involving a ratchet and a pawl. This thought experiment, later popularized by Feynman in his book The Feynman Lectures on Physics, Vol. 1 (1962), was introduced to illustrate the limitations imposed by the second law of thermodynamics.

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