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Brownian motion as a prototype. The original Langevin equation describes Brownian motion, the apparently random movement of a particle in a fluid due to collisions with the molecules of the fluid, $\mathbf{v} = \dot{\mathbf{x}}$. The degrees of freedom of interest here is the velocity of the particle, denoted \mathbf{v} on the particle is written as a sum of a viscous force proportional to ...

[Langevin equation - Wikipedia](#)

In physics, a phonon is a collective excitation in a periodic, elastic arrangement of atoms or molecules in condensed matter, specifically in solids and some liquids. Often referred to as a quasiparticle, it is an excited state in the quantum mechanical quantization of the modes of vibrations of particles. Phonons can be thought of as quantized sound waves ...

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