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Important techniques of computational astrophysics include particle-in-cell (PIC) and the closely related particle-mesh (PM), N-body simulations, Monte Carlo methods, as well as grid-free (with smoothed particle hydrodynamics (SPH) being an important example) and grid-based methods for fluids.

Computational astrophysics - Wikipedia

So-called “N -body” methods have been applied to problems in astrophysics, semiconductor device simulation, molecular dynamics, plasma physics, and fluid mechanics. Computing the field at a point involves summing the contribution from each of the N – 1 particles. The direct method evaluates all pairs of two-body interactions.

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In computational science, there may be billions of equations and unknowns. It should be noted that the matrix A is quite special: it is exceedingly sparse, having only a handful of nonzero elements per row or column. Because of the sparsity and size of the matrix, iterative methods are frequently used to solve these systems.

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