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Discrete element methods are relatively computationally intensive, which limits either the length of a simulation or the number of particles. Several DEM codes, as do molecular dynamics codes, take advantage of parallel processing capabilities (shared or distributed systems) to scale up the number of particles or length of the simulation.

Discrete element method - Wikipedia  
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6.3 Experiments, theories and the discrete element method 215 6.4 The discrete element method and other particle simulation methods 217 6.5 Other simulation methods for granular materials 218 6.5.1 Continuum mechanics 218 6.5.2 Lattice models 219 6.5.3 The Monte Carlo method 220 References 221 7 The Discrete Element Method in Two Dimensions 223 ...

UNDERSTANDING THE DISCRETE ELEMENT METHOD  
The discrete element method is a family of numerical methods for computing the motion of a large number of particles like molecules or grains of sand. From: Journal of Unconventional Oil and Gas Resources, 2015

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