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Peridynamics is a nonlocal formulation of continuum mechanics. The discrete peridynamic model has the same computational structure as a

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molecular dynamic
model. This document
details the...

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Technical Report
Lehoucq, Richard B ;
Silling, Stewart Andrew
; Plimpton, Steven
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8 of the LAMMPS user
manual, Modifying &
extending LAMMPS. To
develop a new. 22.
bond-based material,
start with the PMB pair
style as a template.

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Peridynamics is a
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The discrete peridynamic model has the same computational structure as a molecular dynamic model. This document details the implementation of a discrete peridynamic model within the LAMMPS molecular dynamic code.

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The implementation of Peridynamics in LAMMPS is described in (Parks). Also see the PDLAMMPS user guide for more details about its implementation. The peridynamic VES and EPS models in PDLAMMPS were implemented by R. Rahman and J. T. Foster at University of Texas at San Antonio.

pair_style peri/pmb

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command —
LAMMPS
documentation

On Apr 13, 2015 12:18
PM, "Yifei"

<yifei85.ma@...>

wrote: > > Dear
LAMMPS users, > > I
am trying to calculate
the total interaction
force between two
groups in
peridynamics.

LAMMPS / Re:
[lammps-users]
Calculate total force

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The “damage” of a Peridynamics particles is based on the bond breakage between the particle and its neighbors. If all the bonds are broken the particle is considered to be fully damaged. See the PDLAMMPS user guide for a formal definition of “damage” and more details about Peridynamics as it is implemented in LAMMPS.

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compute
damage/atom
command —
LAMMPS
documentation

PDLAMMPS (Peridynamics-in-LAMMPS)

Peridynamics is a nonlocal extension of classical continuum mechanics, and is principally used for simulations involving fracture, failure, and fragmentation. Some examples are

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presented below. A particular discretization of the peridynamic model has the same computational structure as classical molecular dynamics.

**Sandia National
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Michael L. Parks
Homepage**

Simulation run using
LAMMPS with
peridynamics script
modified from
example. Rendered

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with OVITO. Impact of
spherical particle (not
pictured) at $v = 100$
m/s.

**LAMMPS Example:
Peridynamics -
Brittle shock impact**

Re: [lammps-users]
Peridynamics PMB and
LPS source Re:
[lammps-users]
Peridynamics PMB and
LPS source From: Axel
Kohlmeyer
<akohlmey@gm...> -
2016-10-31 22:59:57

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**[lammps-users]
Peridynamics PMB
and LPS source**

The implementation of Peridynamics in LAMMPS is described in . Also see the PDLAMMPS user guide for more details about its implementation. The peridynamic VES and EPS models in PDLAMMPS were implemented by R. Rahman and J. T.

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Foster at University of
Texas at San Antonio.

Beta **pair_style peri/pmb command - Pasteur**

Can I use a molecular
dynamics software
such as LAMMPS to
perform peridynamic
simulation? - Yes.

Peridynamics is a
continuum mechanics
formulation. In other
words, we do not
individually model
atoms and molecules.

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What Is

Peridynamics —

Peridynamics

LAMMPS allows the user to choose units convenient for their particular simulations, each of which is implemented as a handful of conversion factors. These are used when, for example, kinetic energy ($\frac{1}{2} m v^2$) is computed with velocities in Angstroms/fs and the result should be in

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Kcal/mole (for an atomistic simulation).

Beta **Implementing peridynamics within a molecular dynamics code ...**

Dear Dayal: I read that paper today and found that peridynamic is a powerful tool for solving discrete problem, e.g. crack propagation. I found that a command in lammps called "fix peri", I read that

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command and find out
the peridynamics is
used indepently in
lammps, not coupled
with MD like most
other multiscale
methods, e.g. qc, bsm
,bd, etc.

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ecf8427e.