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Calculating the
Velocity of Dislocation
in LAMMPS
Introduction to
Peridynamics by
Chris Lammi

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The LAMMPS Input
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Peridynamics Theory
Basics | What is
peridynamics?
Damage prediction on
stiffened structures by
using Peridynamics
Introduction to
LAMMPS LAMMPS
Online course May
2020 : Week 1
Creating LAMMPS
Data Files: Polymers

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Overview and
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Peridigm Two
Element Simulations
in LAMMPS

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LAMMPS Tutorial #3 -
Polymers, Converting
PDB to LAMPPS data
files, Analysing
Output Sphere
Deposition on a solar
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Blodgett method
Molecular Dynamics
in 5 Minutes

Interactive MD with
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Converting Crystal
Structure to LAMMPS
data file using atomsk

~~How to build CNT in~~
~~VMD and to get~~
~~LAMMPS input DATA~~

~~file.~~ Introduction to
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BCC10 NAMD

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Membrane Protein

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shock impact~~

Molecular dynamics

Part 2 - LAMMPS -

Melting Copper,

(NVE) (NPT) (NVT)

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Mesoscale Modeling
of Impact Fracture

Erkan Oterkus:
"Beam and plate
formulations in
peridynamic
framework"

Peridynamics:
Columnar Jointing of
Basalt via Coupled
Peridynamic Thermo-
Mechanics New
Science of Cracks:

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Peridynamics | Selda
Oterkus | TEDxUniver
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~~PERIDYNAMIC MODELING OF LARGE DEFORMATION AND DUCTILE FRACTURE~~

Peridynamics With
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the following:

1. Download LAMMPS from <http://lammps.sandia.gov> and untar the source.
2. In the LAMMPS src/ directory do make yes-peri followed by make <your platform> (for example, make g++).
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(for example, `Imp g++
< in.peri`).

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Peridynamics is a
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computational

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Peridynamics with
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section 8 of the
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manual, Modifying &
extending LAMMPS.
To develop a new.
22. bond-based
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Peridynamics is a
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mechanics. The

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discrete peridynamic model has the same computational structure as a molecular dynamics model. This document provides a brief overview of the peridynamic model of a continuum, then discusses how the peridynamic model is discretized within LAMMPS.

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Description

Peridynamics is a
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of continuum
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discrete peridynamic
model has the same
computational
structure as a

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molecular dynamic
model. This document
details the
implementation of a
discrete peridynamic
model within the
LAMMPS molecular
dynamic code.

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Lehoucq, Stewart
Andrew Silling,
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L. Parks. Cite .
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Publisher: Office of
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(OSTI) Year: 2009.
DOI identifier:

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[lammps-users]

Peridynamics using
ILAMMPS [lammps-
users] Peridynamics
using ILAMMPS.

From: Rushikesh

Sanjay Gite

am16m021

<am16m021@sm...>

- 2017-10-22 20:34:55

...

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LAMMPS / [lammps-
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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

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PDLAMMPS were implemented by R. Rahman and J. T. Foster at University of Texas at San Antonio.

pair_style peri/pmb
command —
LAMMPS
documentation
PDLAMMPS (Peridyn
amics-in-LAMMPS)
Peridynamics is a

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nonlocal extension of
User Guide V0.2
mechanics, and is
principally used for
simulations involving
fracture, failure, and
fragmentation. Some
examples are
presented below.

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Laboratories: Michael
L. Parks Homepage

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Dear LAMMPS users,
I am trying to
calculate the total
interaction force
between two groups
in peridynamics. The
model is consisted of
three groups named
“upper”, “middle”, and
“lower”. The “upper”
group contacts with
“middle” only, while
the “middle” interacts
with “upper” and

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“lower”
simultaneously.

LAMMPS / Re:
[lammps-users]
Calculate total force
applied ...
The “damage” of a
Peridynamics
particles is based on
the bond breakage
between the particle
and its neighbors. If

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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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damage/atom
command —

LAMMPS

documentation

Fracture toughness

expression $K_c = 1$.

So, my PDLAMMPS (
Peridynamics-in-
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Peridynamics is a
nonlocal extension of
classical continuum
mechanics, and is
principally used for

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simulations involving fracture, failure, and fragmentation. txt -var nloop 100 . fracture. LAMMPS is a classical molecular dynamics code, and an acronym for Large-scale Atomic/Molecular Massively Parallel Simulator.

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LAMMPS fracture -
cj.hpsolving.it

Peridynamics is a new continuum mechanics formulation. It was originally developed by Dr. Stewart Silling in 2000.

Peridynamics. In order to determine the deformation response of materials and structures subjected

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to external loading conditions, classical continuum mechanics (CCM) was introduced by disregarding the atomistic structure.

What Is Peridynamics
— Peridynamics
LAMMPS allows the user to choose units convenient for their

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particular simulations, each of which is implemented as a handful of conversion factors. These are used when, for example, kinetic energy ($1/2 m v^2$) is computed with velocities in Angstroms/fs and the result should be in Kcal/mole (for an atomistic simulation).

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Calculating the
Velocity of Dislocation
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Ductile
Fracture

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Peridynamics is a nonlocal extension of classical continuum mechanics. The discrete peridynamic model has the same computational structure as a molecular dynamics

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Description

Peridynamics is a nonlocal formulation of continuum mechanics. The discrete peridynamic model has the same computational structure as a molecular dynamic model. This document details the implementation of a discrete peridynamic

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LAMMPS molecular
dynamic code.

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Lehoucq, Stewart
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Ben
L. Parks. Cite .
BibTex; Full citation;
Publisher: Office of
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Technical Information
(OSTI) Year: 2009.
DOI identifier:
10.2172/959309. OAI
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using ILAMMPS.

From: Rushikesh

Sanjay Gite

am16m021

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- 2017-10-22 20:34:55

...

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The implementation of

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the PDLAMMPS user
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Rahman and J. T.
Foster at University of
Texas at San Antonio.

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Calculate total force
applied ...

The “damage” of a
Peridynamics
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the bond breakage
between the particle
and its neighbors. If
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broken the particle is
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damaged. See the
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guide for a formal
definition of “damage”
and more details
about Peridynamics
as it is implemented in
LAMMPS.

compute
damage/atom
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documentation
Fracture toughness

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disregarding the
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user to choose units
convenient for their
particular simulations,
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factors. These are

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used when, for
example, kinetic
energy ($1 / 2 m v^2$)
is computed with
velocities in
Angstroms/fs and the
result should be in
Kcal/mole (for an
atomistic simulation).