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This code extracts data from the LAMMPS output file log.lammps and plot the stress-strain curve.

```
clear all
close all
clc
```

Extracting stress-strain data from the log.lammps file

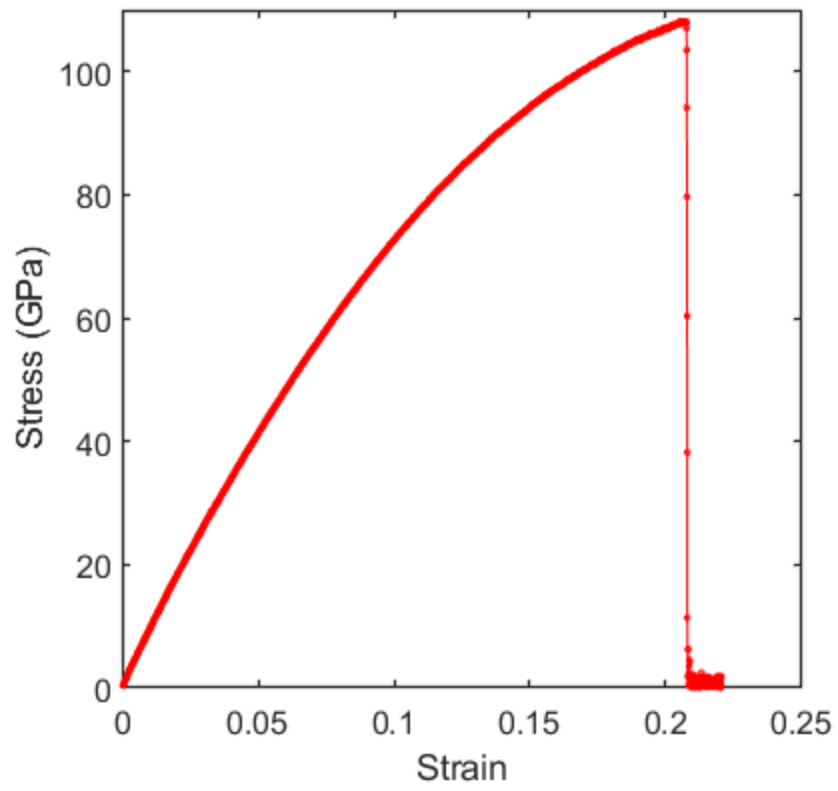
```
[fid] = fopen('log.lammps');

[Stress,count] = fscanf(fid, '%*d %*f %f %*f %f %*f %*f %*f %*f %*f %*f ',
[2,inf]);%% extract only Step and E_pair

Stress = Stress'; %
```

Plotting

```
figure
plot(Stress(:,1), Stress(:,2),'-or','MarkerSize',2)
xlabel('Strain','fontsize',12)
ylabel('Stress (GPa)','fontsize',12)
grid on
set(gca,'LineWidth',1,'FontSize',12)
axis square
axis([0 0.25 0 110])
grid off
```



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