

mesh the simulation domain

assigne the elastic properties of elements

```
for (it in number of iteration){  
    for (tt in number of time step){  
        solve wave propagation for one time step  
        for (el in number of equivalent lienar elements){  
            compute effective strain  
            preserve the maximum effective strain  
        }  
    }  
    for (el in number of equivalent lienar){  
        modify the shear modulus and damping values  
    }  
}
```