

It we presume mass flux, q, is proportional to local slope. 2--PD 3x density of crosion of sediments processes $\frac{\partial h}{\partial t} = -\frac{1}{e} \frac{\partial q}{\partial x} = D \frac{\partial^2 h}{\partial x^2}$ -> Diffusion equation If there is a river water body maintains a set height at bottom of hill this could selve as boundary condition:

h(x=0)=h(x=2L)=0

Perhaps we might consider a river that also transports mass through advection ->add what term

