$$\rho \frac{\partial^2 u_x}{\partial t^2} = A \frac{\partial^2 u_x}{\partial x^2} - 3B \left(\frac{\partial u_x}{\partial x} \right)^2 \frac{\partial^2 u_x}{\partial x^2} + 5C \left(\frac{\partial u_x}{\partial x} \right)^4 \frac{\partial^2 u_x}{\partial x^2} + \eta \frac{\partial^2}{\partial x^2} \left(\frac{\partial u_x}{\partial t} \right)$$

where A, B and C ρ, η are constants