



NTNU
Norwegian University of
Science and Technology

Bake, Shake or Break: Breaking a wooden bridge

Halvorsen & Hasund
The Finite Element Method project
16. November 2014

Modelling equations

$$\frac{dc}{dt} = \kappa \nabla^2 c$$

$$\frac{dc}{dt} = -k_1 c P^R + k_2 (1 - P^R)$$

$$\frac{dP^R}{dt} = -k_1 c P^R + k_2 (1 - P^R)$$

