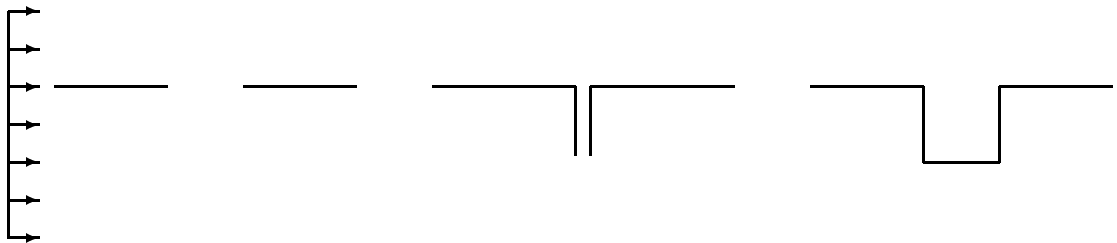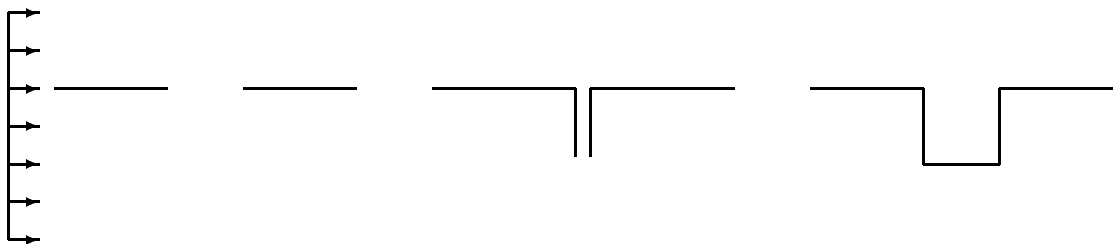# 程式23 Vibration suppression

scattering problems: ($u = 0$ on half surface)

scattering problems: ($t = 0$ on half surface)

1. Problem statement:

   Governing equation:

   $$(\nabla^2 + k^2)u(r, \theta) = 0, (r, \theta)\ in\ D$$

   Boundary conditions: radiation case and scattering case

2. Output: radiation field and scattering field