程式 13 Complete MRM for acoustic problems

interior problem
$\nabla^2 u + k^2 u = 0$

$u = 0$

interior problem
$\nabla^2 u + k^2 u = 0$

$t = 0$

diameter=2

exterior problem

$u = \bar{u}e^{i\omega t}$

exterior problem

$t = \bar{t}e^{i\omega t}$

diameter=2

$\nabla^2 u + k^2 u = 0$

$\nabla^2 u + k^2 u = 0$
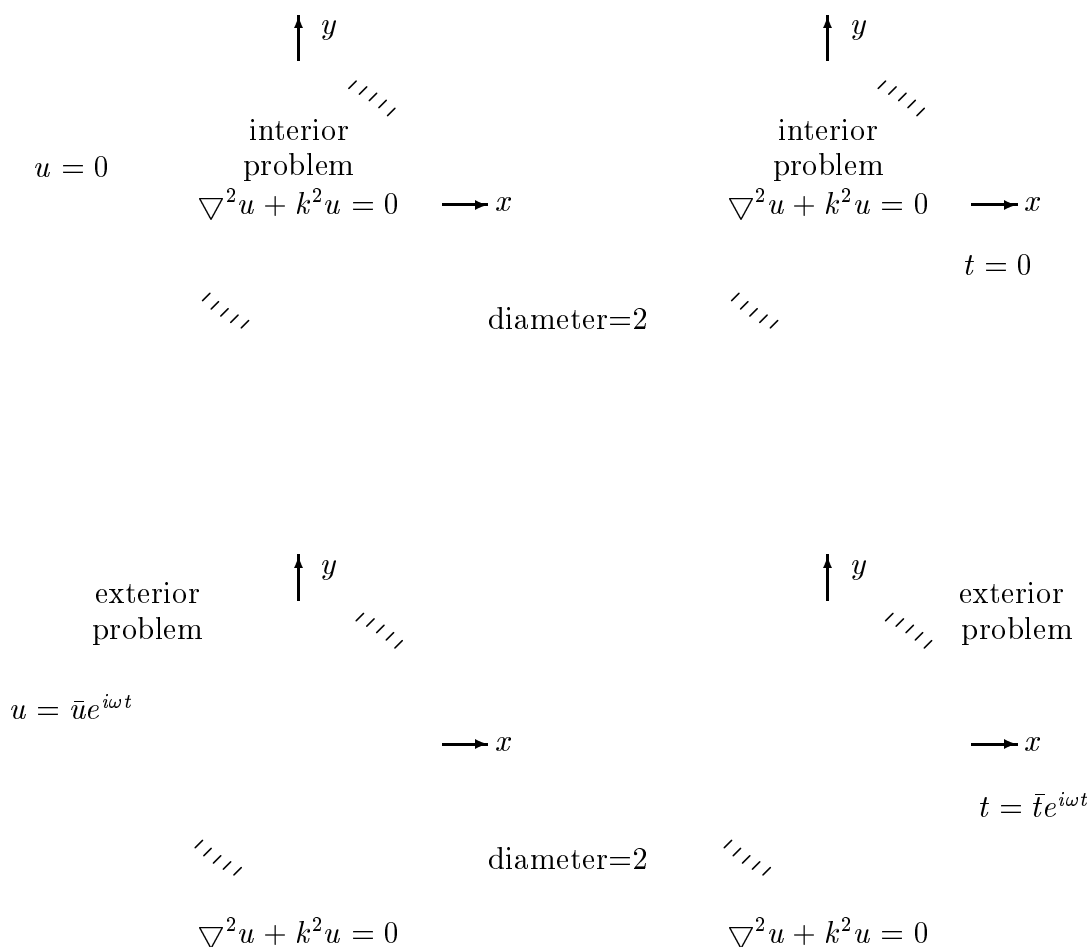
(1). Interior problem with the homogeneous Dirichelet boundary condition

(2). Interior problem with the homogeneous Neumann boundary condition

(3). Exterior problem with the nonhomogeneous Dirichelet boundary condition

(4). Exterior problem with the nonhomogeneous Neumann boundary condition

References

[1] W. Yeih, J. T. Chen, K. H. Chen and F. C. Wong, 1998, A Study on the Multiple Reciprocity Method and Complex-valued formulation for the Helmholtz Equation, Advances in Engineering Software, Vol.29, No.1, pp.1-6. (SCI and EI)