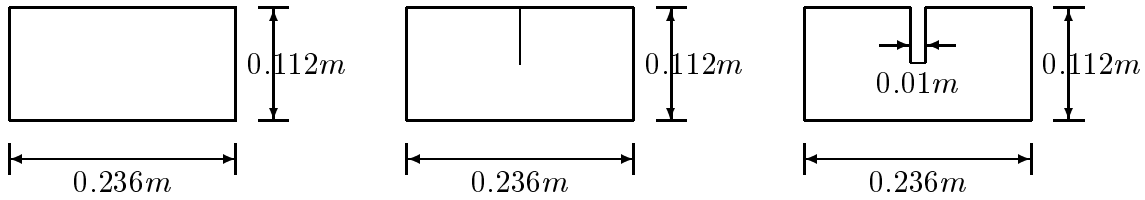
程式9(c) ACOUSTICS by imag-part BEM



1. Problem statement:
$G.E.$: $(\bigtriangledown^2 + k^2)p(x,y) = 0, \qquad (x,y) \in D$
BC: $\frac{\partial p}{\partial n} = 0, \qquad (x,y)$ on the boundaries
where $k = \frac{\omega}{c}$.

2. Fill in the acoustic frequencies in following table

Mode no.	(a)	(b)	(c)
1			
2			
3			
4			
5			
6			

3. Please show
(1). BEM mesh
(2). Pressure contour for acoustic modes
(3). 3-D plot for pressure of acoustic modes

References

[1] J. T. Chen, S. R. Kuo and K. H. Chen, 1999, A nonsingular integral formulation for the Helmholtz eigenproblems of a circular domain, J. Chinese Institute of Engineers, Vol.22, No.6, pp.729-739. (SCI and EI)