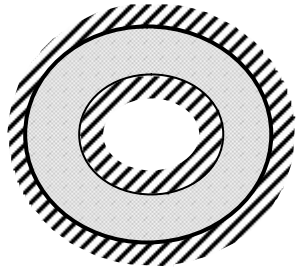
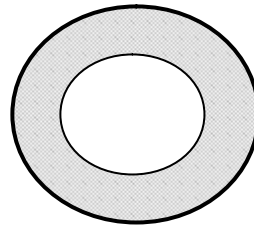


## 程式 71 Eigenproblem of annular membrane using MFS

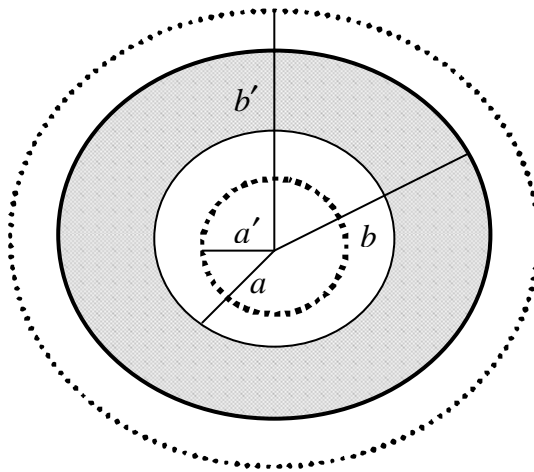


Fixed-fixed



Free-free

Node distribution



1. Analytical solution for true eigenequation
2. Analytical solution for spurious eigenequation
3. Treatment
  - (a) Burton & Miller
  - (b) SVD updating

### References

1. J. T. Chen, S. Y. Lin, I. L. Chen and Y. T. Lee, Mathematical analysis and numerical study for free vibration of annular plates using BIEM and BEM, Submitted, 2003.
2. J. T. Chen, J. H. Lin, S. R. Kuo and S. W. Chyuan, Boundary element analysis for the Helmholtz eigenvalue problems with a multiply connected domain, Proceeding of the Royal Society Series A in London, Vol.457, pp.2521-2546, 2001.
3. J. T. Chen, L. W. Liu and H.-K. Hong, Spurious and true eigensolutions of Helmholtz BIEs and BEMs for a multiply connected problem, Proceeding of the Royal Society Series A in London, Vol.459, pp.1897-1924, 2003.