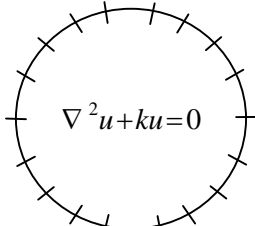


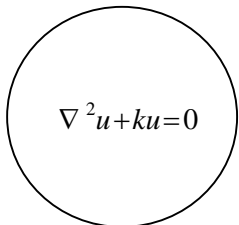
程式 41 圓形特徵值問題(Dirichlet, Neumann and mixed BCs)

$u=0$



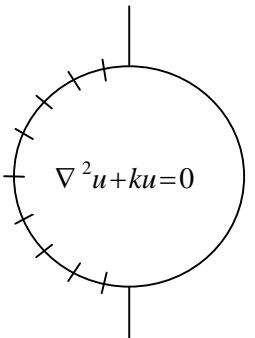
$\nabla^2 u + ku = 0$

$t=0$



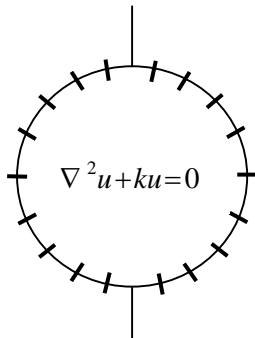
$\nabla^2 u + ku = 0$

$u=0$



$\nabla^2 u + ku = 0$

$t=0$



$\nabla^2 u + ku = 0$

$2u + 3t = 0$

1. Solve the eigensolution for $u=0$ on all the boundary.
2. Solve the eigensolution for $t=0$ on all the boundary.
3. Solve the eigensolution for the above problems.
4. Examine the true and spurious solutions by plotting S versus k .
5. Study the spurious eigenvalues for the problem with mixed-typed B.C.
6. Study the degenerate scale for the problem with mixed-typed B.C.
7. Study the fictitious frequency for the problem with mixed-typed B.C.

1. 對退化的影響。
2. 對假根的影響。
3. 對虛擬頻率的影響。
4. 不均勻簡單邊界條件的結果。
5. 不對稱元素切割。(不等邊長佈等元素數)
6. 均勻之複合型邊界條件。
7. 多連通問題。
 - 具 0/0 之問題，元素切割增多不會解決問題，反是使誤差變大。

